

Data File : VW013852.D
Acq On : 31 Oct 2019 11:55
Operator : SY/VA
Sample : VSTD05015
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTD05001

Quant Time: Oct 31 12:23:32 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM103119S.M
Quant Title : VOC Analysis
QLast Update : Thu Oct 31 12:00:18 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	323007	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	315945	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	197029	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	218445	55.12	ug/L	0.00
7) Chloroethane-d5	2.89	69	177260	47.92	ug/L	0.00
10) 1,1-Dichloroethene-d2	4.03	63	447458	51.12	ug/L	0.00
20) 2-Butanone-d5	7.07	46	150617	106.26	ug/L	0.00
24) Chloroform-d	7.65	84	444906	49.23	ug/L	0.00
26) 1,2-Dichloroethane-d4	8.31	65	238157	50.39	ug/L	0.00
29) Benzene-d6	8.27	84	940889	49.57	ug/L	0.00
33) 1,2-Dichloropropane-d6	9.27	67	282176	49.77	ug/L	0.00
37) Toluene-d8	10.32	98	903022	51.58	ug/L	0.00
38) trans-1,3-Dichloropropene-	10.58	79	132434	51.78	ug/L	0.00
39) 2-Hexanone-d5	10.92	63	130448	120.37	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	12.69	84	247221	53.24	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	13.85	152	339812	48.80	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.01	85	171443	47.189 ug/L	99
3) Chloromethane	2.21	50	182472	46.398 ug/L	96
5) Vinyl chloride	2.37	62	255431	51.972 ug/L	100
6) Bromomethane	2.78	94	163720	46.102 ug/L	99
8) Chloroethane	2.92	64	149513	45.016 ug/L	98
9) Trichlorofluoromethane	3.25	101	116217	35.084 ug/L	97
11) 1,1,2-Trichloro-1,2,2-trif	4.07	101	256092	49.096 ug/L	99
12) 1,1-Dichloroethene	4.04	96	263869	51.401 ug/L	91
13) Acetone	4.12	43	117342	74.589 ug/L	99
14) Carbon disulfide	4.39	76	775319	52.783 ug/L	98
15) Methyl Acetate	4.66	43	137477	53.482 ug/L	100
16) Methylene chloride	4.92	84	270311	43.703 ug/L	99
17) Methyl tert-butyl Ether	5.42	73	330071	46.470 ug/L	90
18) trans-1,2-Dichloroethene	5.42	96	273545	48.204 ug/L	99
19) 1,1-Dichloroethane	6.21	63	466507	48.566 ug/L	100
21) 2-Butanone	7.17	43	195056	97.653 ug/L	98
22) cis-1,2-Dichloroethene	7.17	96	299091	49.102 ug/L	99
23) Bromochloromethane	7.51	128	136917	49.731 ug/L	96
25) Chloroform	7.67	83	462313	47.914 ug/L	100
27) 1,2-Dichloroethane	8.40	62	308617	49.904 ug/L	100
30) Cyclohexane	7.95	56	460715	49.775 ug/L	100
31) 1,1,1-Trichloroethane	7.87	97	356114	48.326 ug/L	100
32) Carbon tetrachloride	8.07	117	357136	49.770 ug/L	99
34) Benzene	8.32	78	1090795	48.118 ug/L	100
35) Trichloroethene	9.09	95	281089	48.328 ug/L	99
36) Methylcyclohexane	9.34	83	502389	49.006 ug/L	100
40) 1,2-Dichloropropane	9.37	63	269276	48.581 ug/L	99
41) Bromodichloromethane	9.65	83	341100	50.224 ug/L	97
42) cis-1,3-Dichloropropene	10.07	75	442162	50.526 ug/L	98
43) 4-Methyl-2-pentanone	10.21	43	393461	104.043 ug/L	99

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VSTD05001

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Quant Title : VOC Analysis
QLast Update : Thu Oct 31 12:00:18 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	10.38	91	1190698	48.888	ug/L	99
45) trans-1,3-Dichloropropene	10.60	75	361017	51.107	ug/L	99
46) 1,1,2-Trichloroethane	10.79	97	212142	49.626	ug/L	97
47) Tetrachloroethene	10.86	164	256249	48.130	ug/L	99
49) 2-Hexanone	10.97	43	285298	106.340	ug/L	98
50) Dibromochloromethane	11.13	129	258924	51.322	ug/L	99
51) 1,2-Dibromoethane	11.23	107	209457	50.386	ug/L	99
52) Chlorobenzene	11.66	112	752839	48.310	ug/L	99
53) Ethylbenzene	11.73	91	1328770	49.378	ug/L	99
54) m,p-Xylene	11.83	106	514791	49.503	ug/L	97
55) o-xylene	12.16	106	495240	50.184	ug/L	98
56) Styrene	12.18	104	856506	50.736	ug/L	100
57) Isopropylbenzene	12.46	105	1314110	49.645	ug/L	100
58) 1,1,2,2-Tetrachloroethane	12.71	83	261825	52.256	ug/L	97
59) 1,2,3-Trichloropropane	12.77	75	195954	52.445	ug/L	99
62) Bromoform	12.35	173	165584	49.038	ug/L	100
63) 1,3-Dichlorobenzene	13.50	146	629251	47.067	ug/L	99
64) 1,4-Dichlorobenzene	13.58	146	634108	47.200	ug/L	99
65) 1,2-Dichlorobenzene	13.87	146	580235	47.901	ug/L	100
66) 1,2-Dibromo-3-chloropropan	14.49	75	44594	53.560	ug/L	95
67) 1,3,5-Trichlorobenzene	14.63	180	502241	50.532	ug/L	100
68) 1,2,4-trichlorobenzene	15.13	180	417579	49.489	ug/L	97
69) Naphthalene	15.36	128	836219	54.692	ug/L	99
70) 1,2,3-Trichlorobenzene	15.55	180	381941	50.546	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial      : 1      Sample Multiplier: 1
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Instrument :
MSVOA_W
ClientSampleId :
VSTD05001

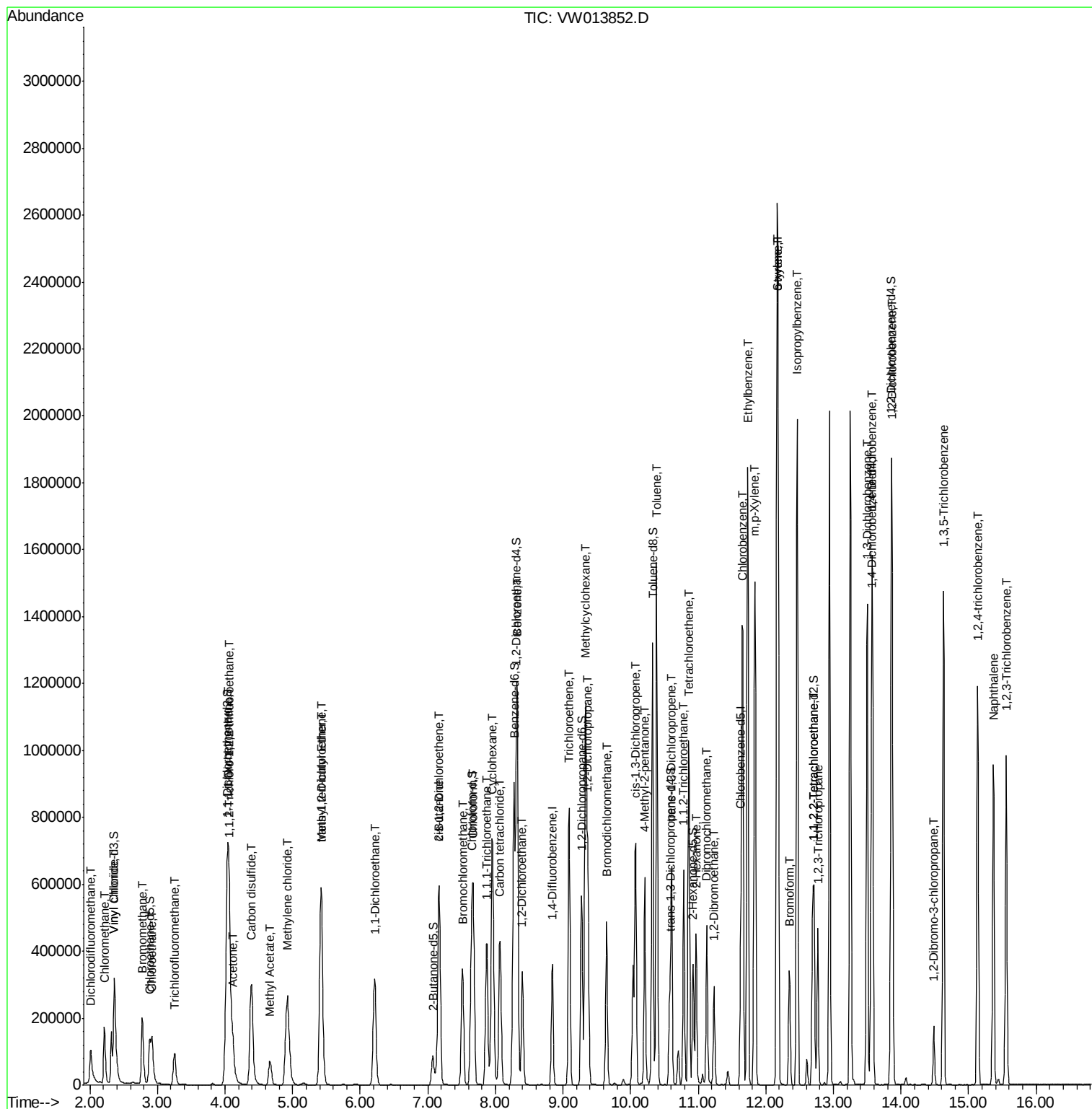
Quant Time: Oct 31 12:23:32 2019

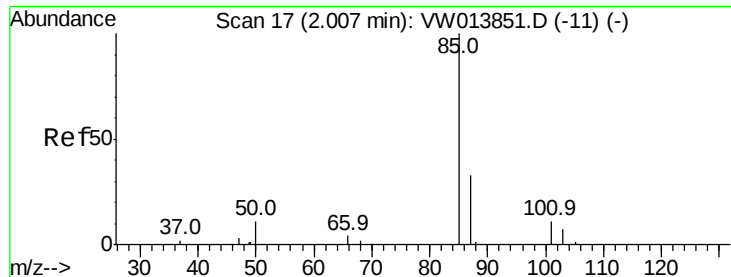
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM103119S.M

Quant Title : VOC Analysis

QLast Update : Thu Oct 31 12:00:18 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 47.189 ug/L

RT: 2.01 min Scan# 18

Delta R.T. 0.01 min

Lab File: VW013852.D

Acq: 31 Oct 2019 11:55

Instrument :

MSVOA_W

ClientSampleId :

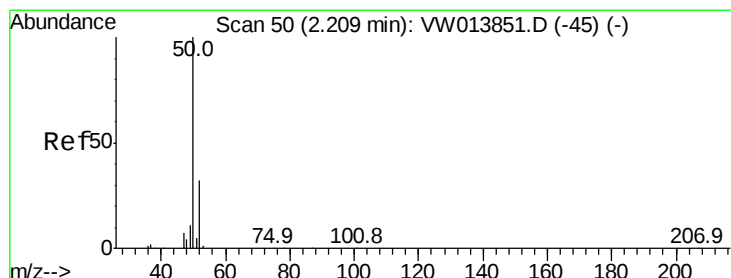
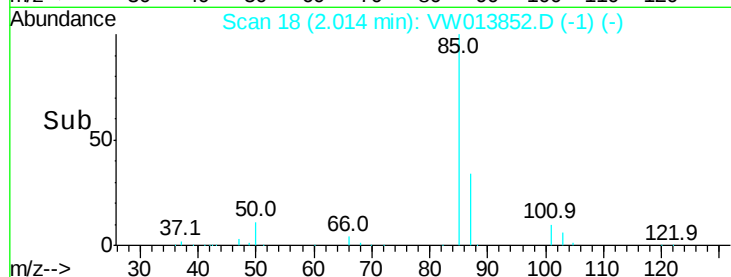
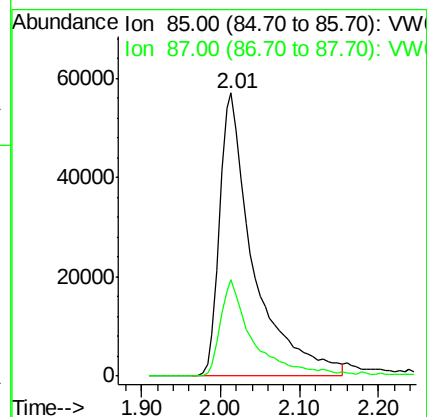
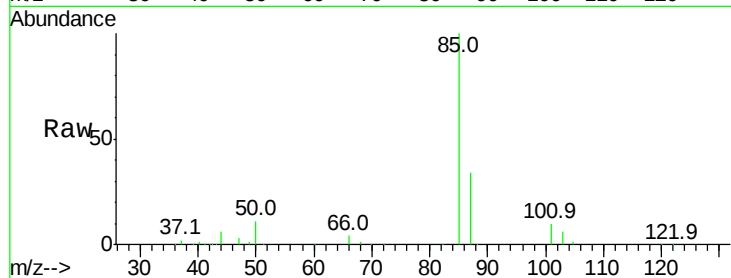
VSTD05001

Tgt Ion: 85 Resp: 171443

Ion Ratio Lower Upper

85 100

87 31.4 22.5 41.7



#3

Chloromethane

Concen: 46.398 ug/L

RT: 2.21 min Scan# 51

Delta R.T. 0.01 min

Lab File: VW013852.D

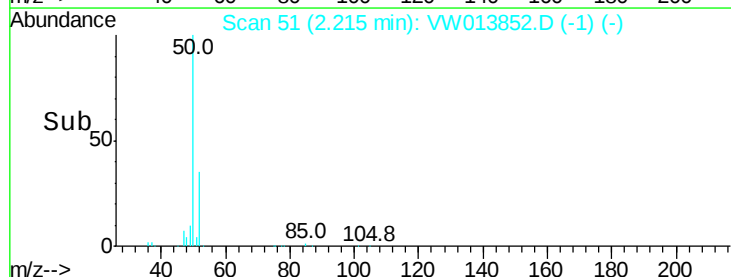
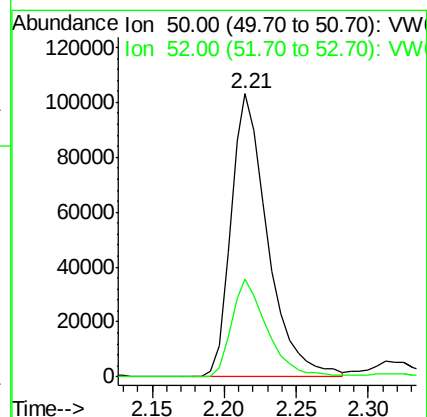
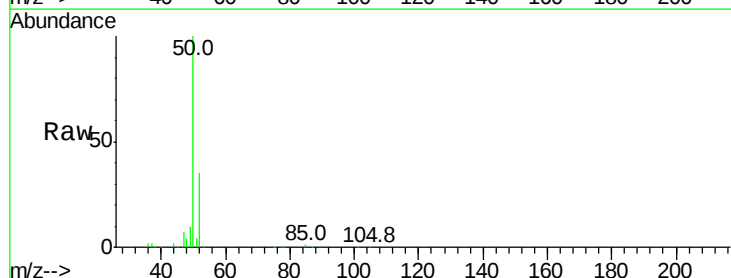
Acq: 31 Oct 2019 11:55

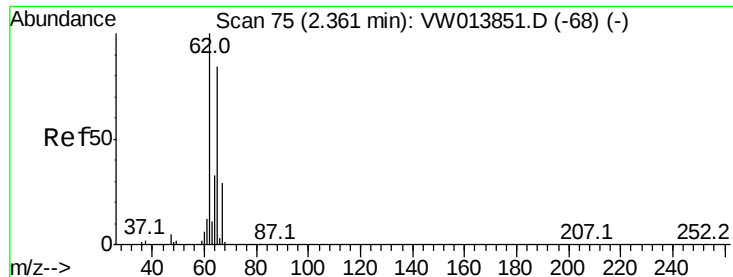
Tgt Ion: 50 Resp: 182472

Ion Ratio Lower Upper

50 100

52 34.5 22.5 41.9





#5

Vinyl chloride

Concen: 51.972 ug/L

RT: 2.37 min Scan# 76

Delta R.T. 0.01 min

Lab File: VW013852.D

Acq: 31 Oct 2019 11:55

Instrument :

MSVOA_W

ClientSampleId :

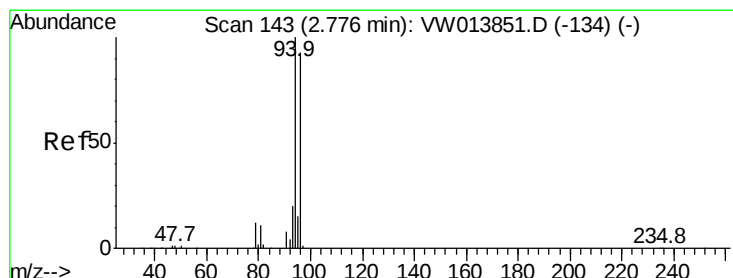
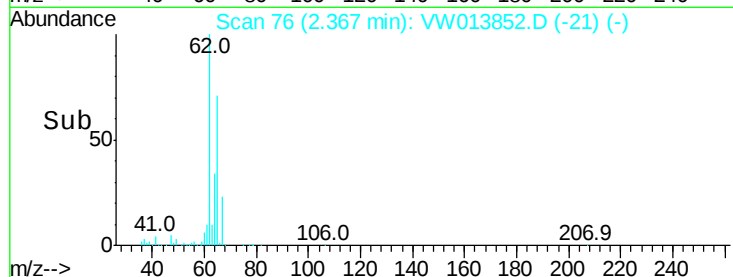
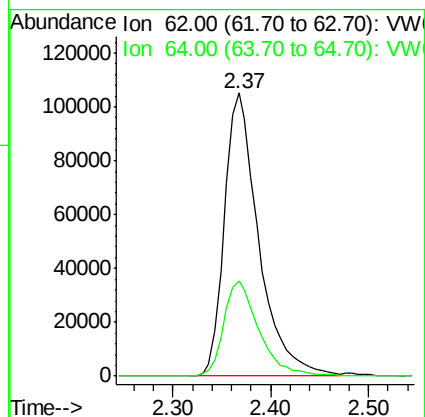
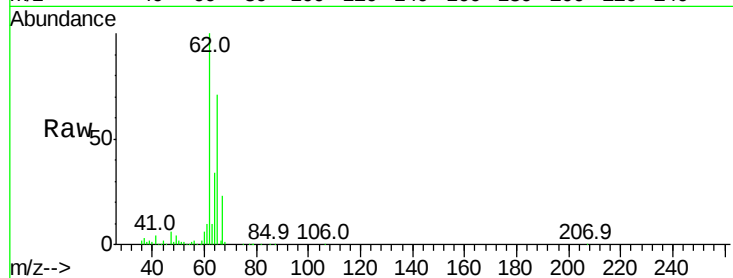
VSTD05001

Tgt Ion: 62 Resp: 255431

Ion Ratio Lower Upper

62 100

64 33.5 23.3 43.3



#6

Bromomethane

Concen: 46.102 ug/L

RT: 2.78 min Scan# 143

Delta R.T. 0.00 min

Lab File: VW013852.D

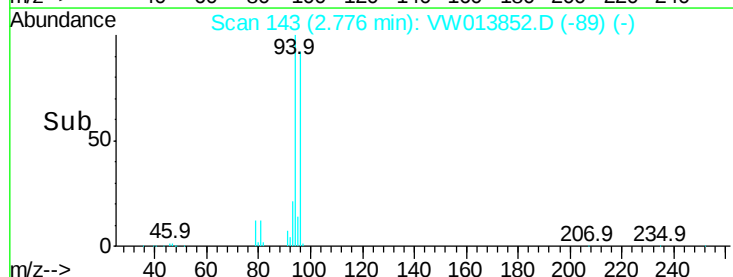
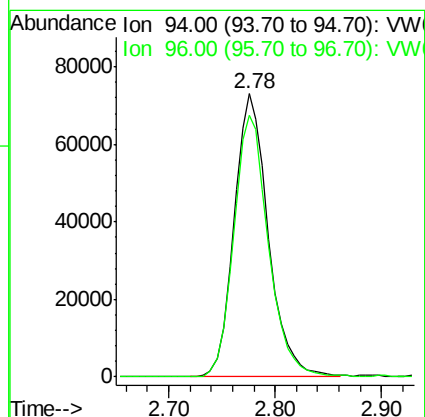
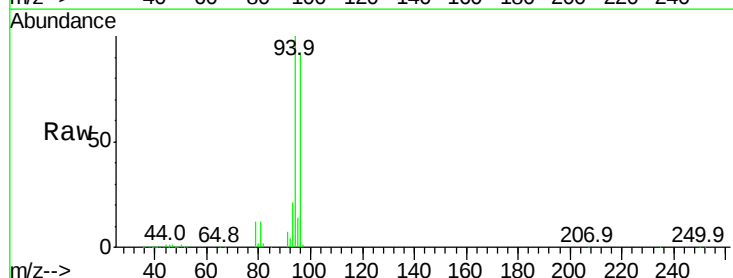
Acq: 31 Oct 2019 11:55

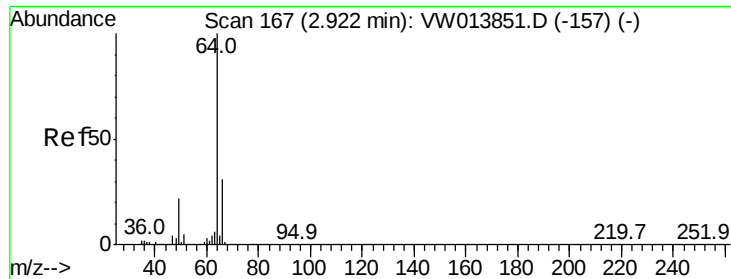
Tgt Ion: 94 Resp: 163720

Ion Ratio Lower Upper

94 100

96 93.8 9.3 177.3





#8

Chloroethane

Concen: 45.016 ug/L

RT: 2.92 min Scan# 167

Delta R.T. 0.00 min

Lab File: VW013852.D

Acq: 31 Oct 2019 11:55

Instrument :

MSVOA_W

ClientSampleId :

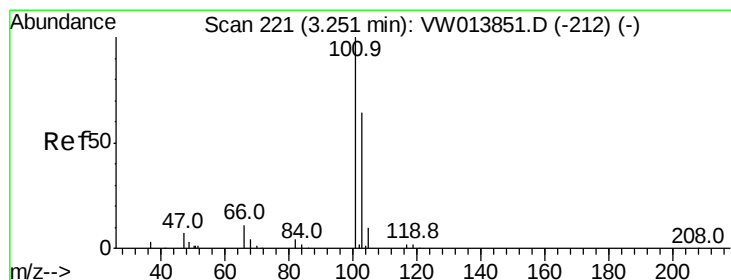
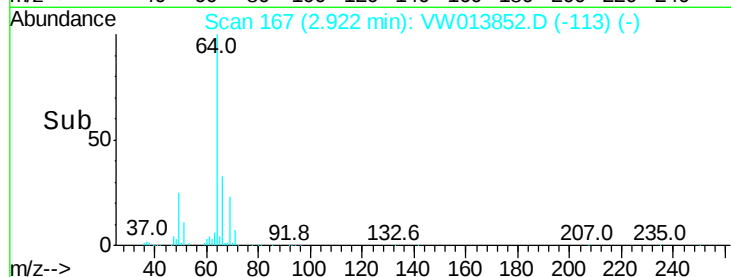
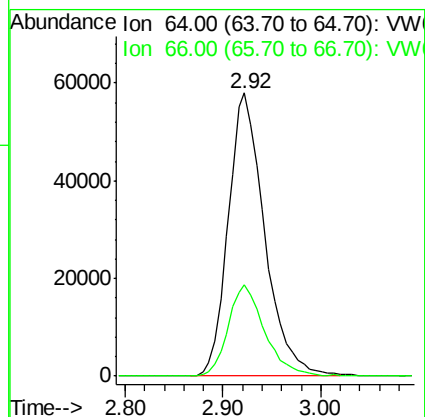
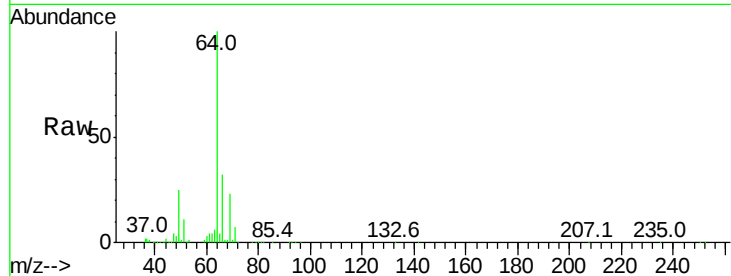
VSTD05001

Tgt Ion: 64 Resp: 149513

Ion Ratio Lower Upper

64 100

66 32.5 22.0 41.0



#9

Trichlorofluoromethane

Concen: 35.084 ug/L

RT: 3.25 min Scan# 221

Delta R.T. 0.00 min

Lab File: VW013852.D

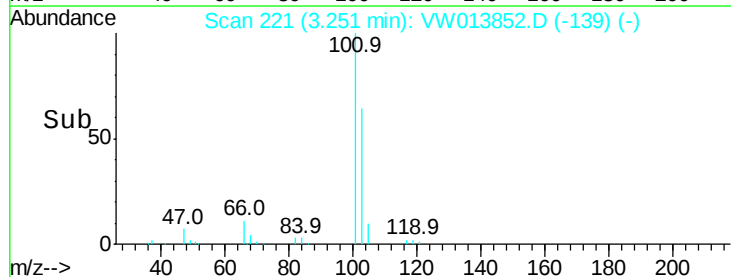
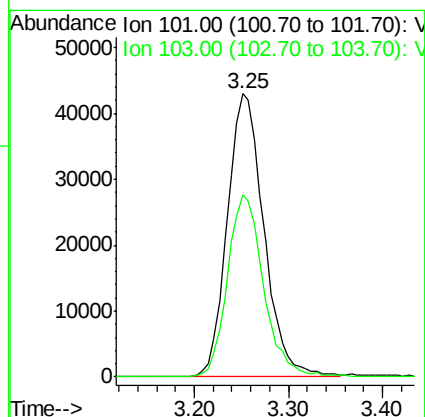
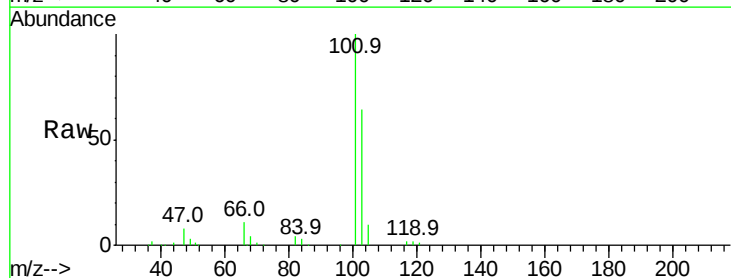
Acq: 31 Oct 2019 11:55

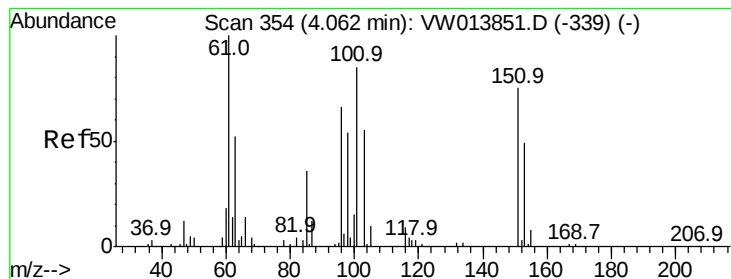
Tgt Ion: 101 Resp: 116217

Ion Ratio Lower Upper

101 100

103 63.4 45.8 85.0





#11

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 49.096 ug/L

RT: 4.07 min Scan# 355

Delta R.T. 0.01 min

Lab File: VW013852.D

Acq: 31 Oct 2019 11:55

Instrument :

MSVOA_W

ClientSampled :

VSTD05001

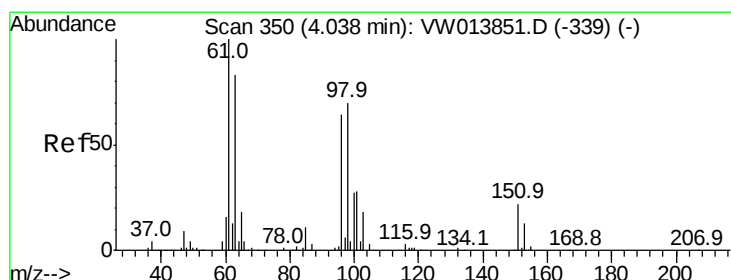
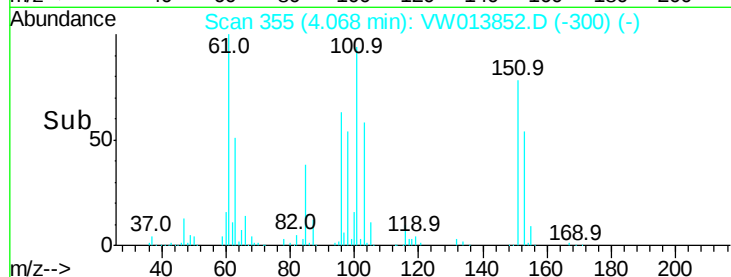
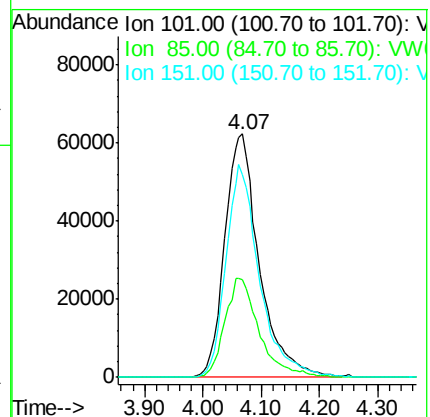
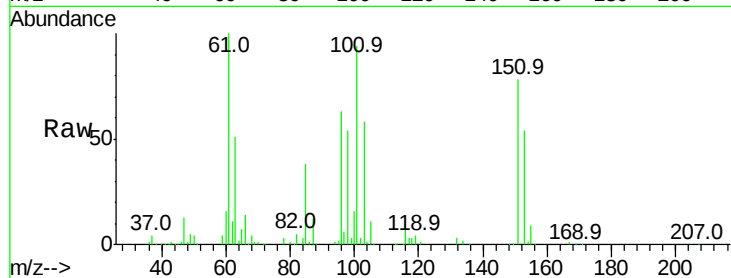
Tgt Ion: 101 Resp: 256092

Ion Ratio Lower Upper

101 100

85 40.3 32.6 48.8

151 84.7 68.2 102.4



#12

1,1-Dichloroethene

Concen: 51.401 ug/L

RT: 4.04 min Scan# 351

Delta R.T. 0.01 min

Lab File: VW013852.D

Acq: 31 Oct 2019 11:55

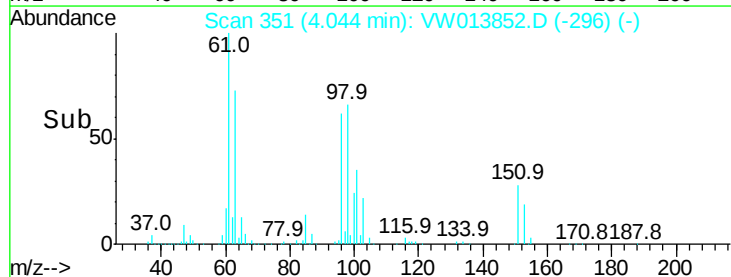
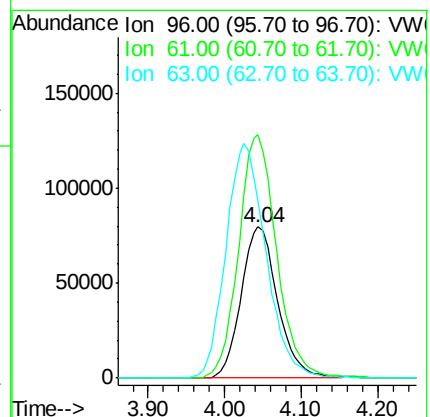
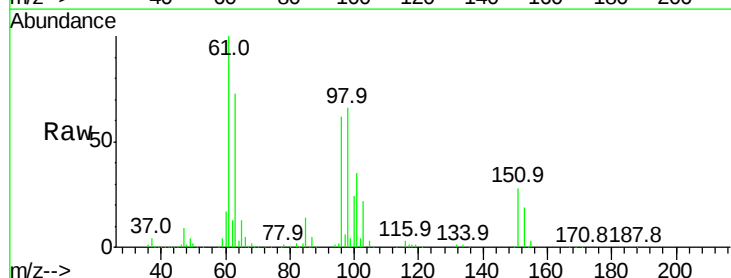
Tgt Ion: 96 Resp: 263869

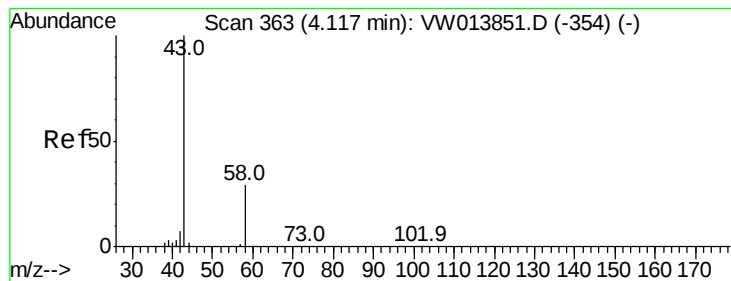
Ion Ratio Lower Upper

96 100

61 160.8 110.4 205.0

63 117.5 95.5 177.3





#13

Acetone

Concen: 74.589 ug/L

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

Lab File: VW013852.D

Acq: 31 Oct 2019 11:55

Instrument :

MSVOA_W

ClientSampleId :

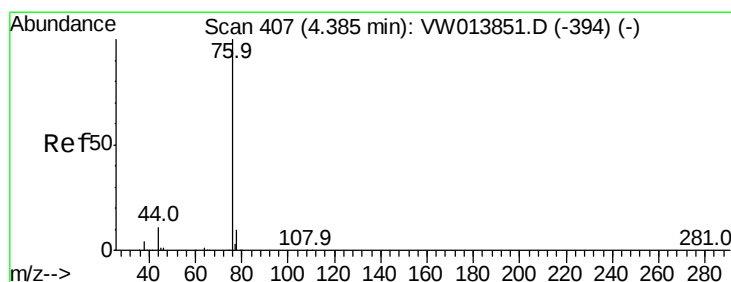
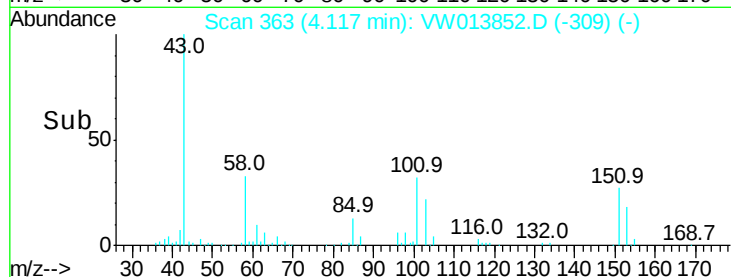
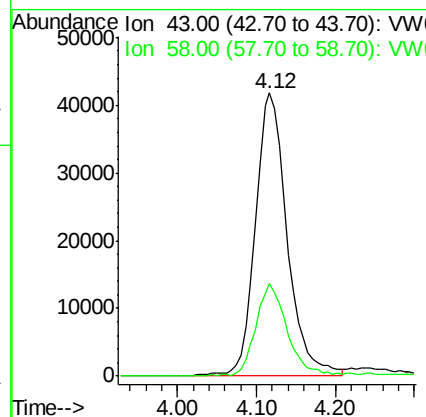
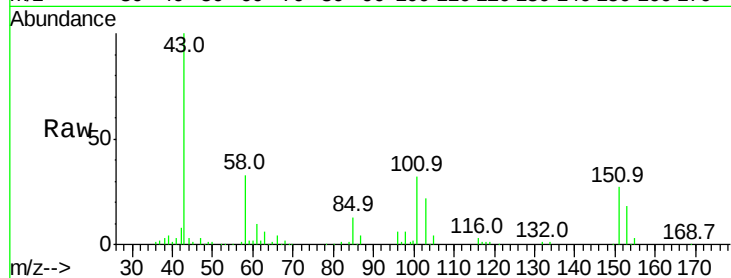
VSTD05001

Tgt Ion: 43 Resp: 117342

Ion Ratio Lower Upper

43 100

58 32.1 0.0 63.4



#14

Carbon disulfide

Concen: 52.783 ug/L

RT: 4.39 min Scan# 408

Delta R.T. 0.01 min

Lab File: VW013852.D

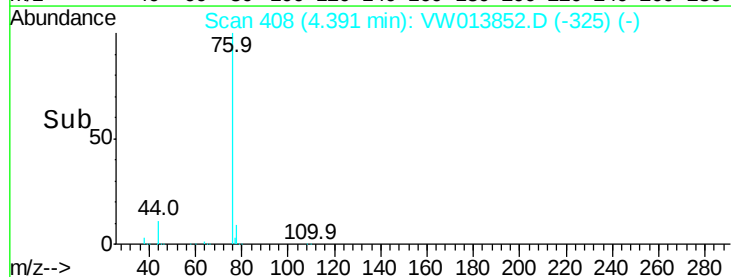
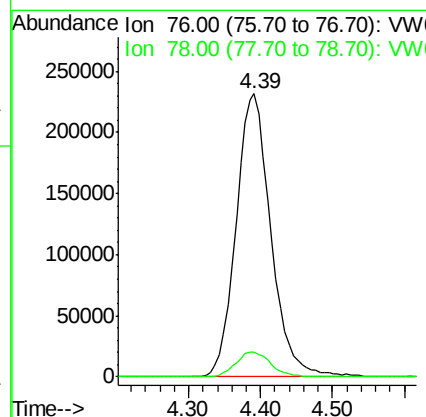
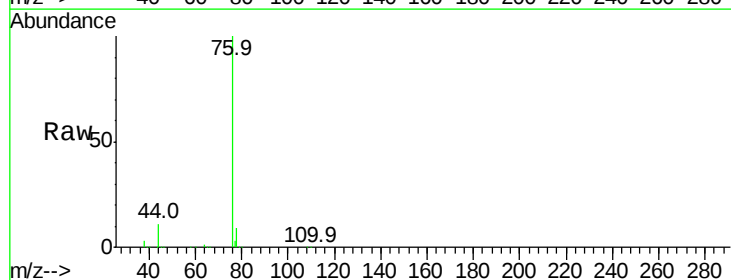
Acq: 31 Oct 2019 11:55

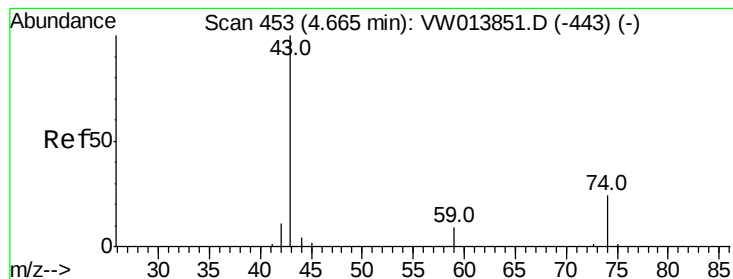
Tgt Ion: 76 Resp: 775319

Ion Ratio Lower Upper

76 100

78 9.0 7.8 11.6





#15

Methyl Acetate

Concen: 53.482 ug/L

RT: 4.66 min Scan# 452

Delta R.T. -0.01 min

Lab File: VW013852.D

Acq: 31 Oct 2019 11:55

Instrument :

MSVOA_W

ClientSampled :

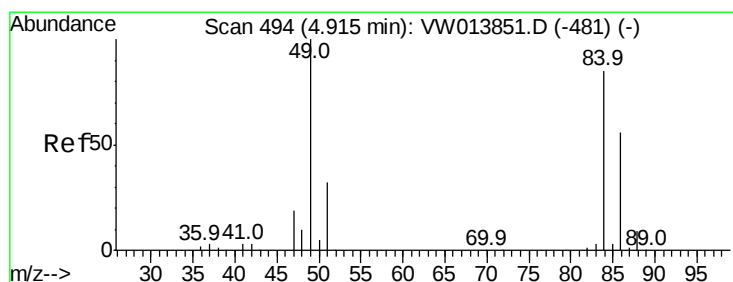
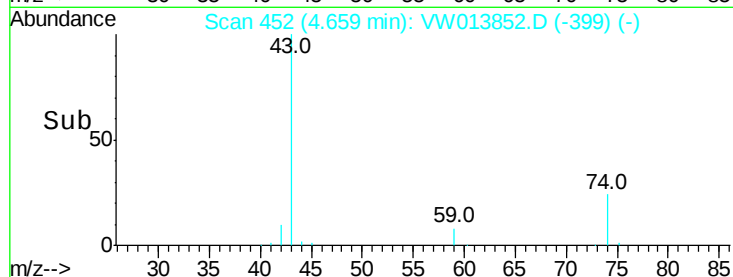
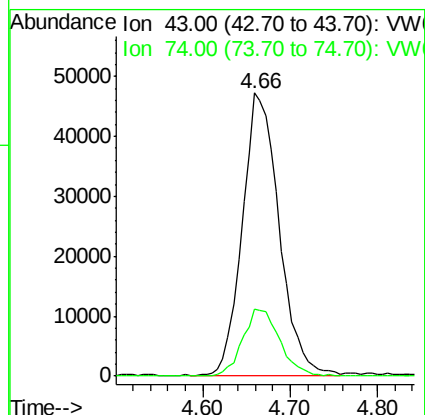
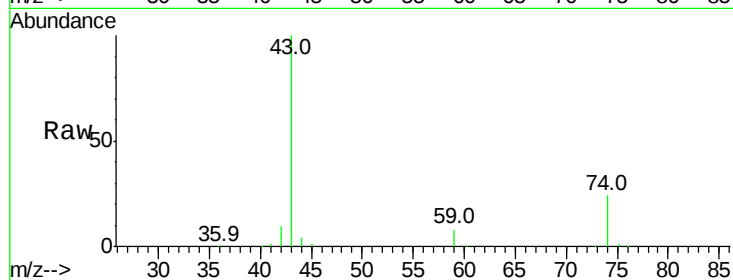
VSTD05001

Tgt Ion: 43 Resp: 137477

Ion Ratio Lower Upper

43 100

74 23.8 19.2 28.8



#16

Methylene chloride

Concen: 43.703 ug/L

RT: 4.92 min Scan# 495

Delta R.T. 0.01 min

Lab File: VW013852.D

Acq: 31 Oct 2019 11:55

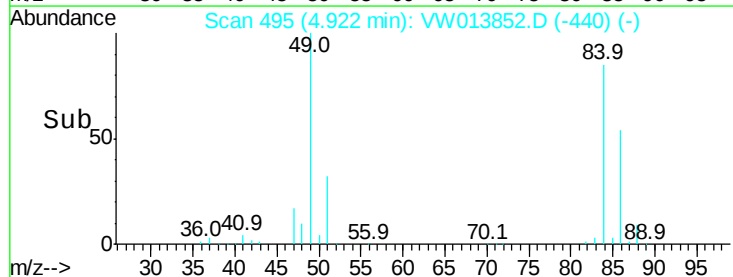
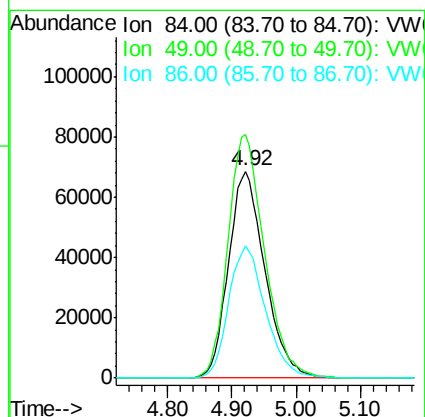
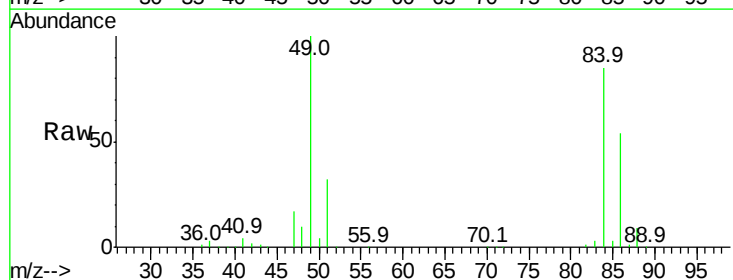
Tgt Ion: 84 Resp: 270311

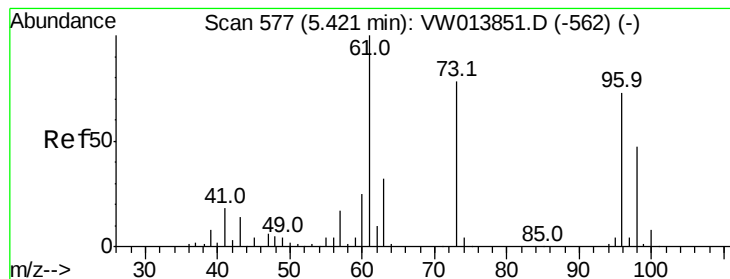
Ion Ratio Lower Upper

84 100

49 117.6 82.2 152.6

86 63.9 45.6 84.8





#17

Methyl tert-butyl Ether

Concen: 46.470 ug/L

RT: 5.42 min Scan# 577

Delta R.T. 0.00 min

Lab File: VW013852.D

Acq: 31 Oct 2019 11:55

Instrument :

MSVOA_W

ClientSampled :

VSTD05001

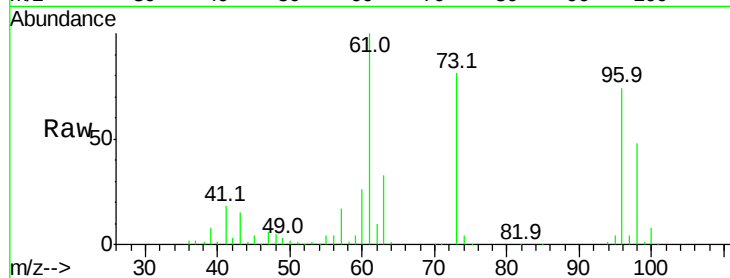
Tgt Ion: 73 Resp: 330071

Ion Ratio Lower Upper

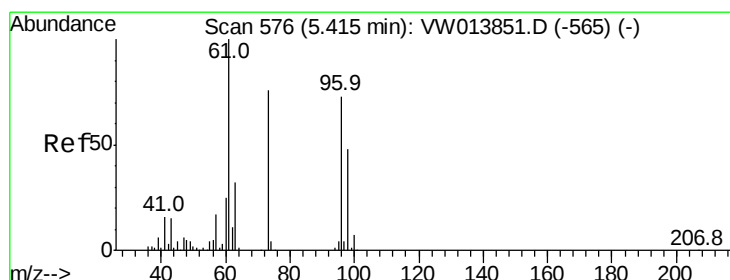
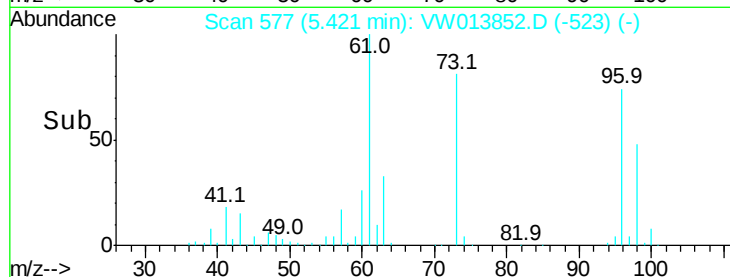
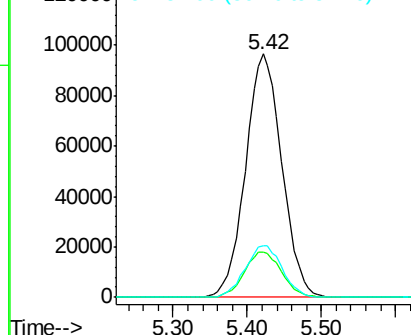
73 100

43 19.2 15.3 22.9

57 21.6 9.4 14.2#



Abundance Ion 73.00 (72.70 to 73.70): VW
Ion 43.00 (42.70 to 43.70): VW
Ion 57.00 (56.70 to 57.70): VW



#18

trans-1,2-Dichloroethene

Concen: 48.204 ug/L

RT: 5.42 min Scan# 577

Delta R.T. 0.01 min

Lab File: VW013852.D

Acq: 31 Oct 2019 11:55

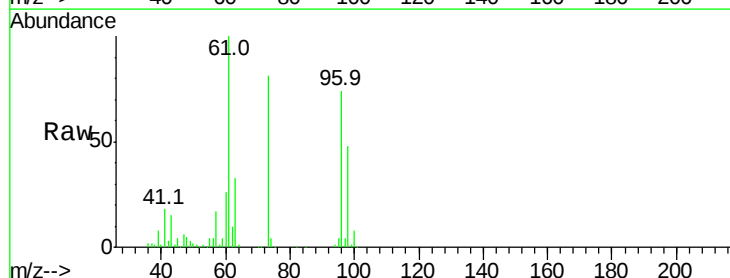
Tgt Ion: 96 Resp: 273545

Ion Ratio Lower Upper

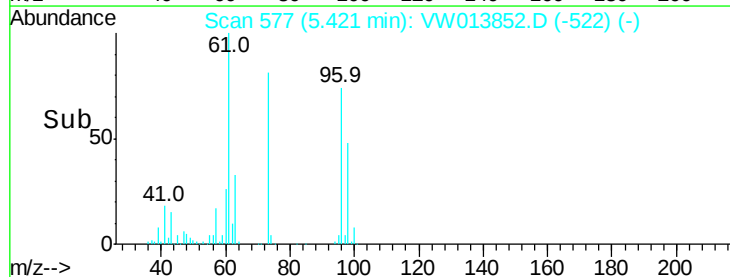
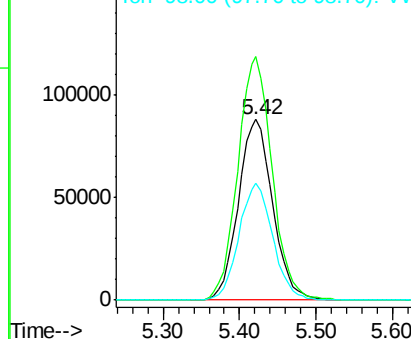
96 100

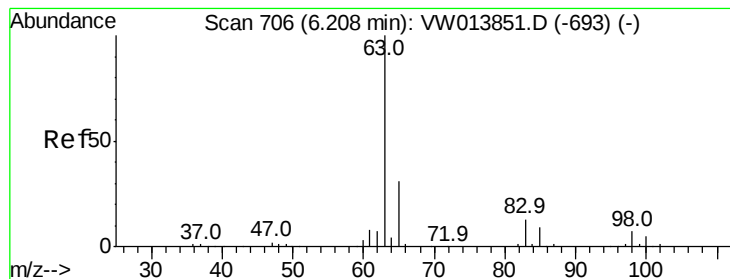
61 134.9 95.5 177.4

98 64.6 45.4 84.4



Abundance Ion 96.00 (95.70 to 96.70): VW
Ion 61.00 (60.70 to 61.70): VW
Ion 98.00 (97.70 to 98.70): VW





#19

1,1-Dichloroethane

Concen: 48.566 ug/L

RT: 6.21 min Scan# 707

Delta R.T. 0.01 min

Lab File: VW013852.D

Acq: 31 Oct 2019 11:55

Instrument :

MSVOA_W

ClientSampleId :

VSTD05001

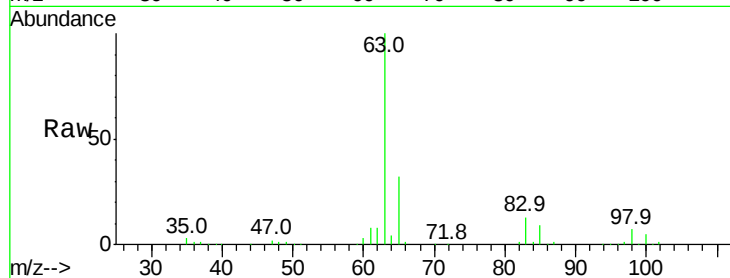
Tgt Ion: 63 Resp: 466507

Ion Ratio Lower Upper

63 100

65 31.5 22.0 40.8

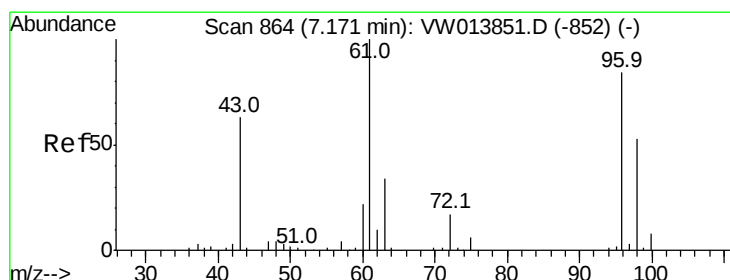
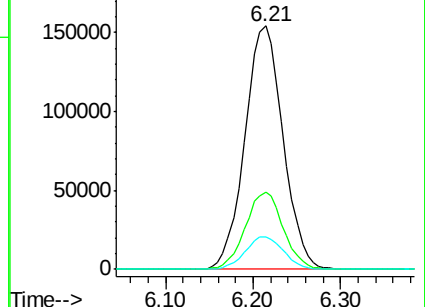
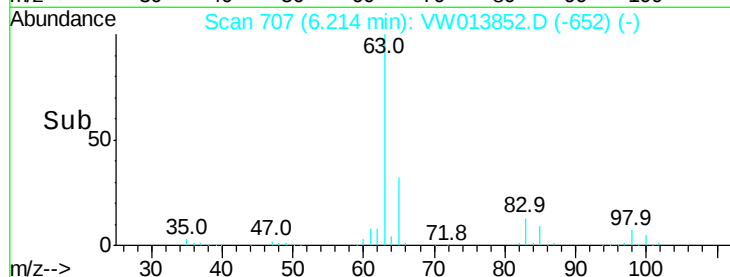
83 13.4 9.1 16.9



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 65.00 (64.70 to 65.70): VW

Ion 83.00 (82.70 to 83.70): VW



#21

2-Butanone

Concen: 97.653 ug/L

RT: 7.17 min Scan# 863

Delta R.T. -0.01 min

Lab File: VW013852.D

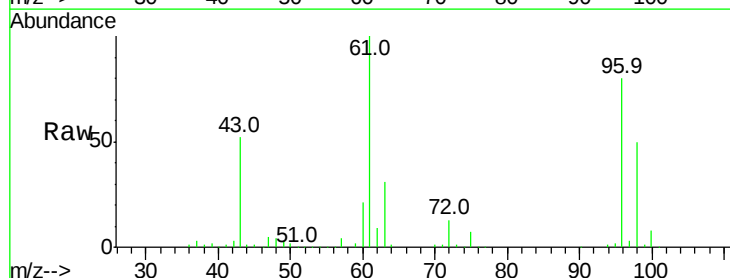
Acq: 31 Oct 2019 11:55

Tgt Ion: 43 Resp: 195056

Ion Ratio Lower Upper

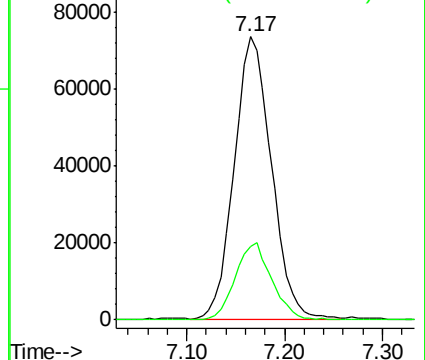
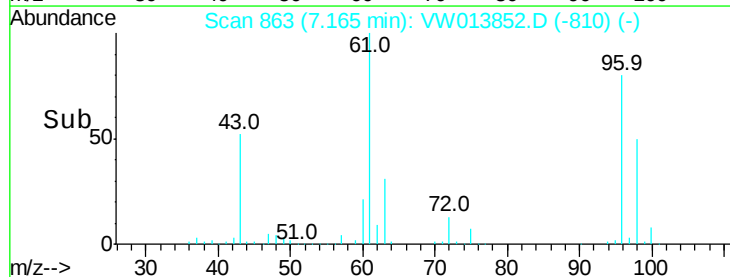
43 100

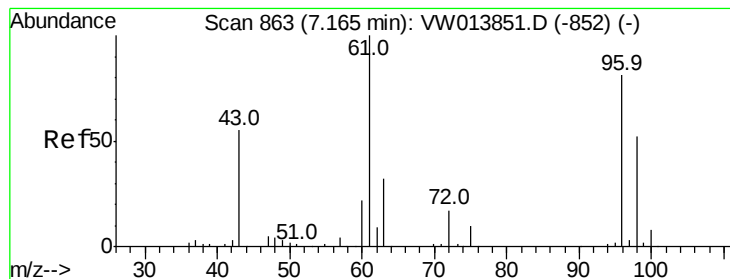
72 26.6 14.0 41.9



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



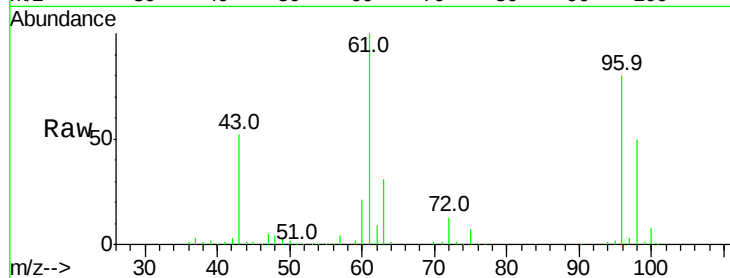


#22

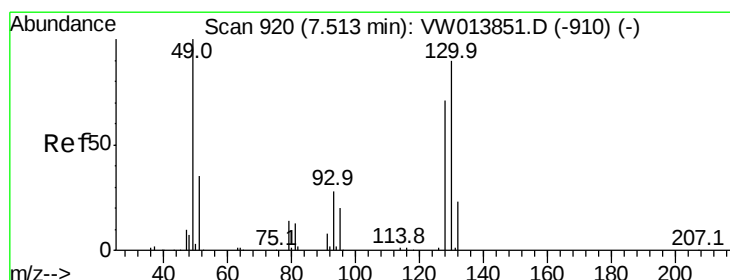
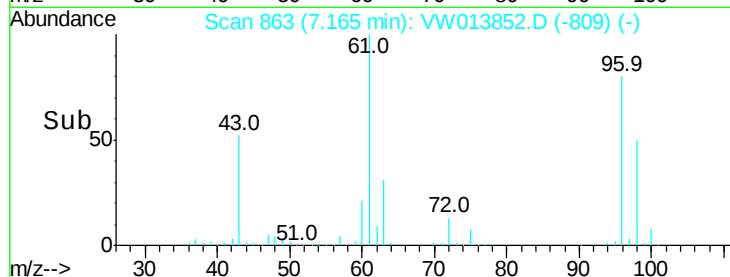
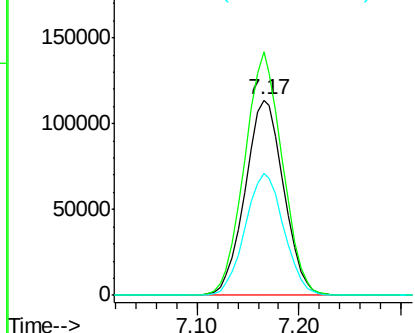
cis-1,2-Dichloroethene
Concen: 49.102 ug/L
RT: 7.17 min Scan# 863
Delta R.T. 0.00 min
Lab File: VW013852.D
Acq: 31 Oct 2019 11:55

Instrument :
MSVOA_W
ClientSampleId :
VSTD05001

Tgt Ion: 96 Resp: 299091
Ion Ratio Lower Upper
96 100
61 124.5 86.6 160.8
98 62.2 44.5 82.7



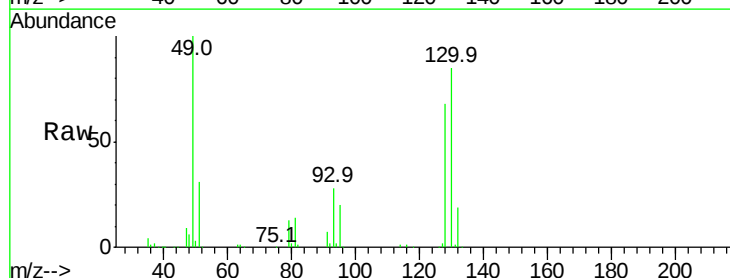
Abundance Ion 96.00 (95.70 to 96.70): VW
Ion 61.00 (60.70 to 61.70): VW
Ion 98.00 (97.70 to 98.70): VW



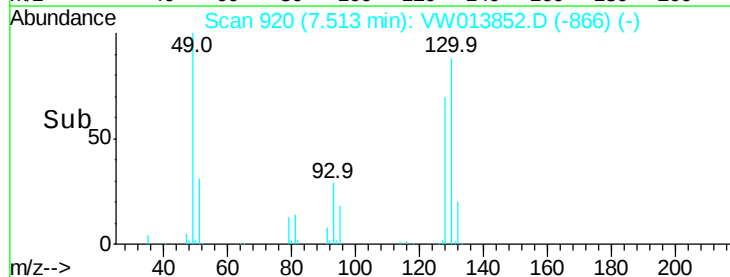
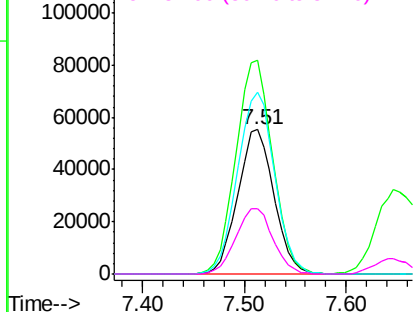
#23

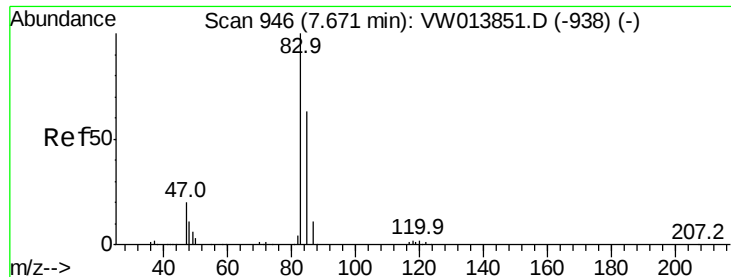
Bromochloromethane
Concen: 49.731 ug/L
RT: 7.51 min Scan# 920
Delta R.T. 0.00 min
Lab File: VW013852.D
Acq: 31 Oct 2019 11:55

Tgt Ion: 128 Resp: 136917
Ion Ratio Lower Upper
128 100
49 147.9 99.1 184.1
130 125.5 88.8 164.8
51 45.4 39.6 59.4



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VW
Ion 130.00 (129.70 to 130.70): V
Ion 51.00 (50.70 to 51.70): VW





#25

Chloroform

Concen: 47.914 ug/L

RT: 7.67 min Scan# 946

Delta R.T. 0.00 min

Lab File: VW013852.D

Acq: 31 Oct 2019 11:55

Instrument :

MSVOA_W

ClientSampleId :

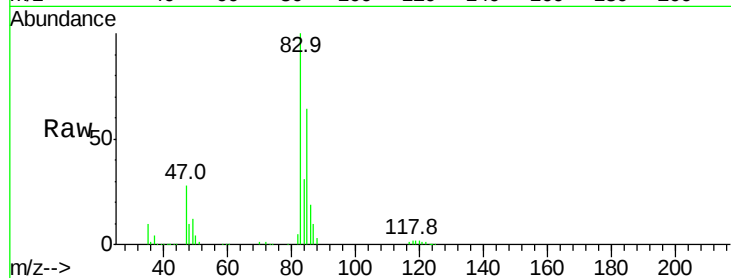
VSTD05001

Tgt Ion: 83 Resp: 462313

Ion Ratio Lower Upper

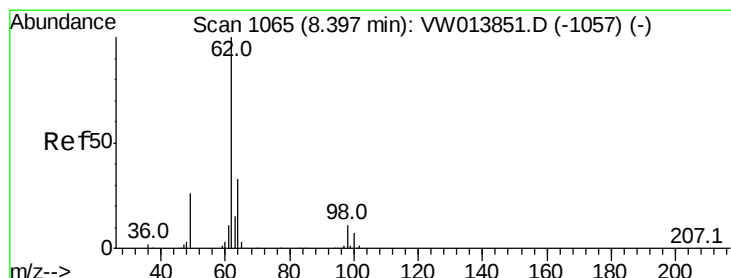
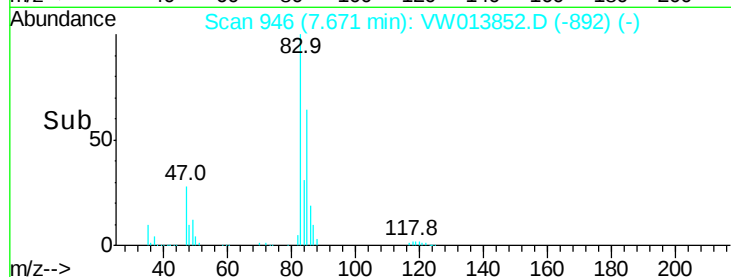
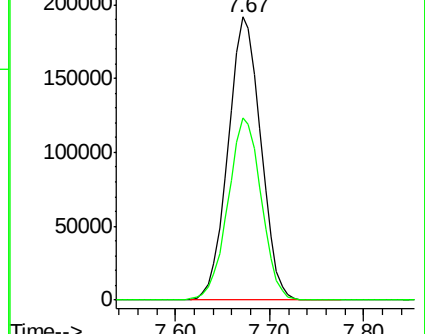
83 100

85 65.6 46.2 85.8



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW



#27

1,2-Dichloroethane

Concen: 49.904 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VW013852.D

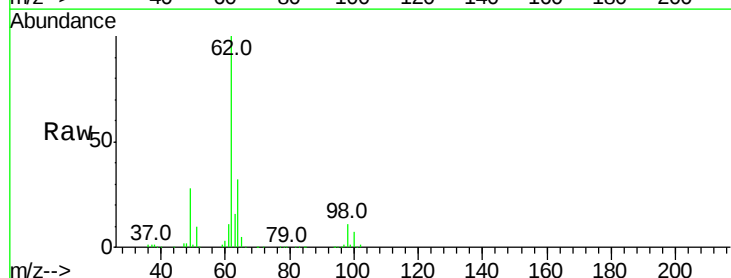
Acq: 31 Oct 2019 11:55

Tgt Ion: 62 Resp: 308617

Ion Ratio Lower Upper

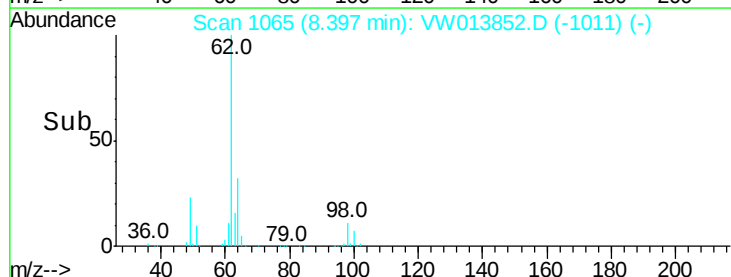
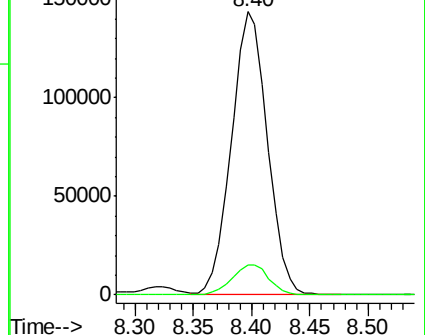
62 100

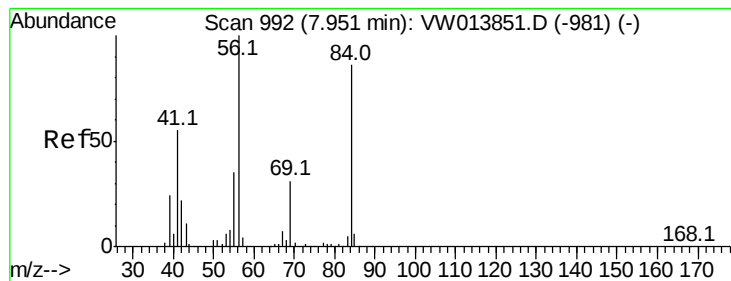
98 10.7 8.6 12.8



Abundance Ion 62.00 (61.70 to 62.70): VW

Ion 98.00 (97.70 to 98.70): VW





#30

Cyclohexane

Concen: 49.775 ug/L

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW013852.D

Acq: 31 Oct 2019 11:55

Instrument :

MSVOA_W

ClientSampleId :

VSTD05001

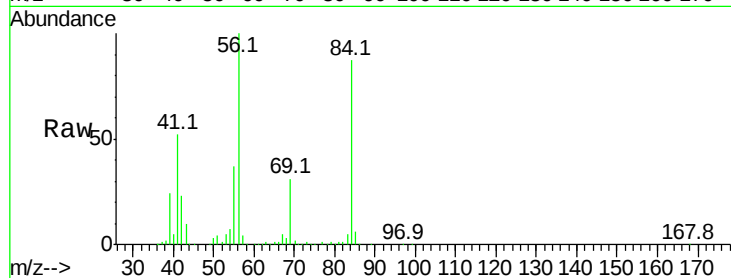
Tgt Ion: 56 Resp: 460715

Ion Ratio Lower Upper

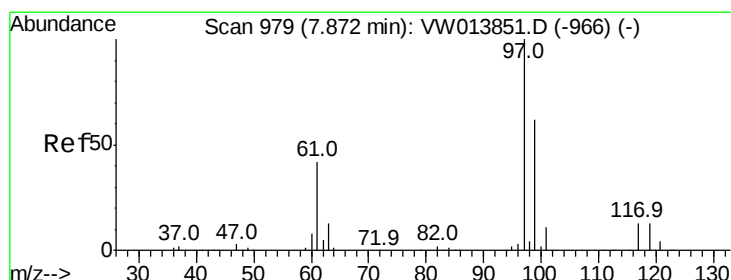
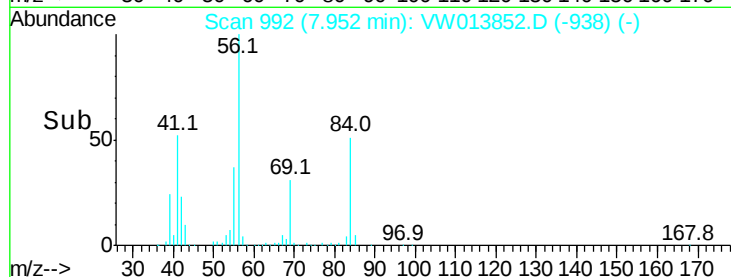
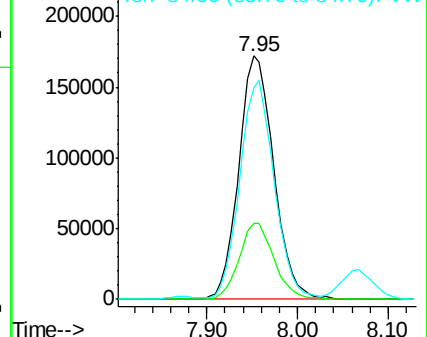
56 100

69 31.1 24.6 36.8

84 88.1 70.2 105.4



Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW



#31

1,1,1-Trichloroethane

Concen: 48.326 ug/L

RT: 7.87 min Scan# 979

Delta R.T. 0.00 min

Lab File: VW013852.D

Acq: 31 Oct 2019 11:55

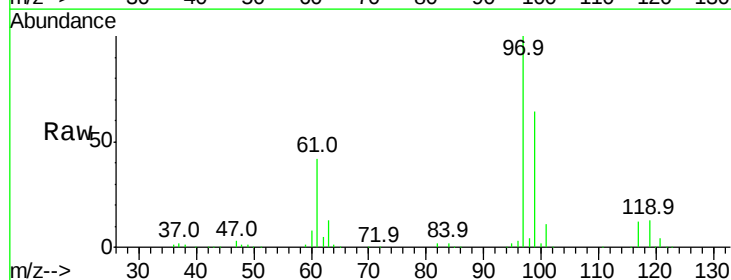
Tgt Ion: 97 Resp: 356114

Ion Ratio Lower Upper

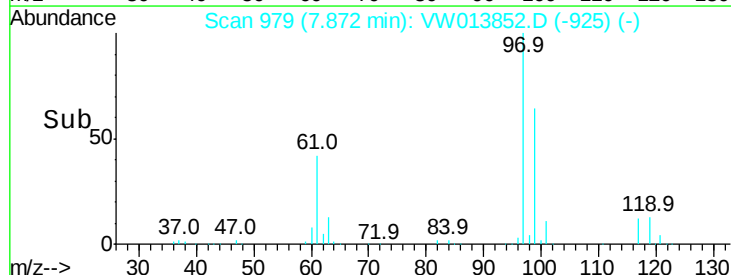
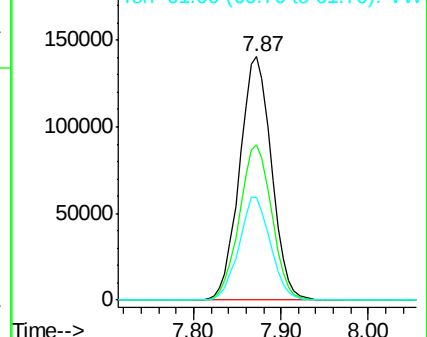
97 100

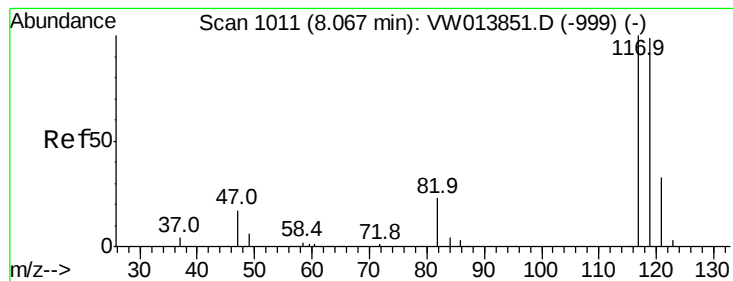
99 64.6 51.3 76.9

61 41.8 33.6 50.4



Abundance Ion 97.00 (96.70 to 97.70): VW
Ion 99.00 (98.70 to 99.70): VW
Ion 61.00 (60.70 to 61.70): VW





#32

Carbon tetrachloride

Concen: 49.770 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. 0.00 min

Lab File: VW013852.D

Acq: 31 Oct 2019 11:55

Instrument :

MSVOA_W

ClientSampleId :

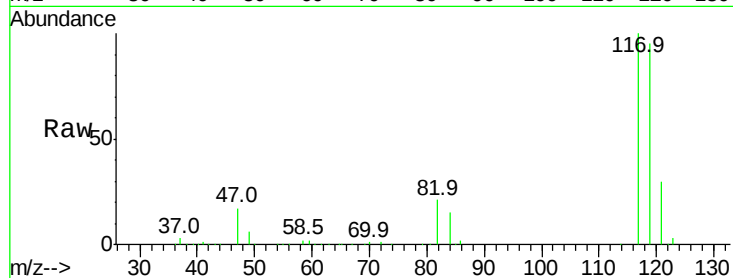
VSTD05001

Tgt Ion:117 Resp: 357136

Ion Ratio Lower Upper

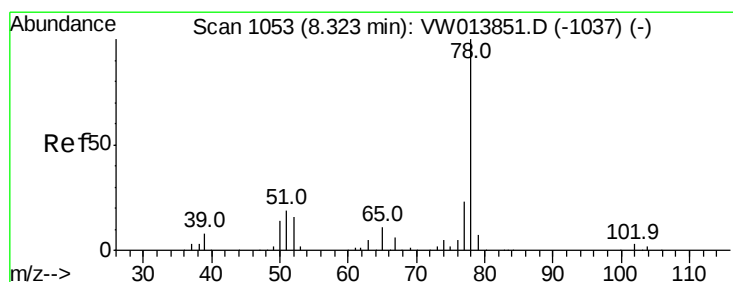
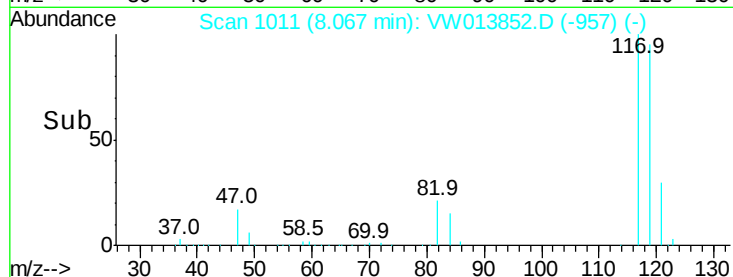
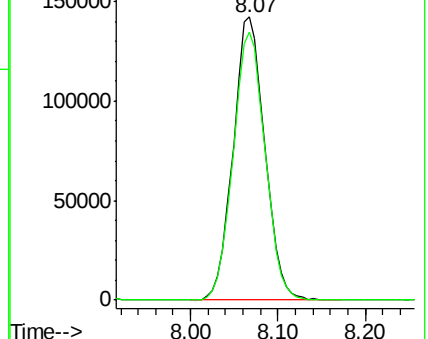
117 100

119 95.7 75.8 113.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 48.118 ug/L

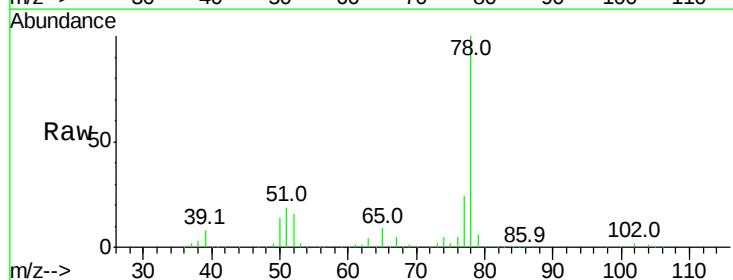
RT: 8.32 min Scan# 1053

Delta R.T. 0.00 min

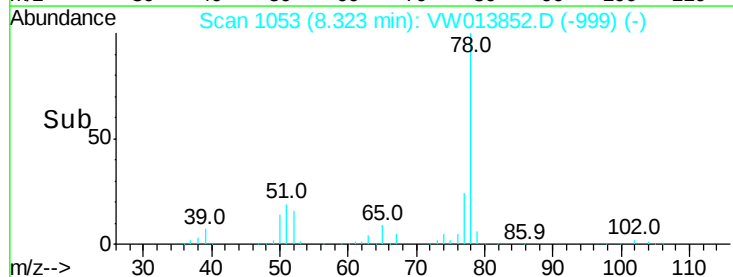
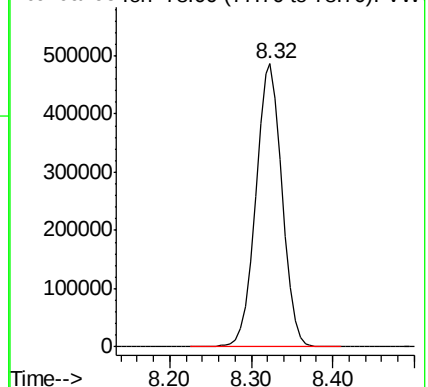
Lab File: VW013852.D

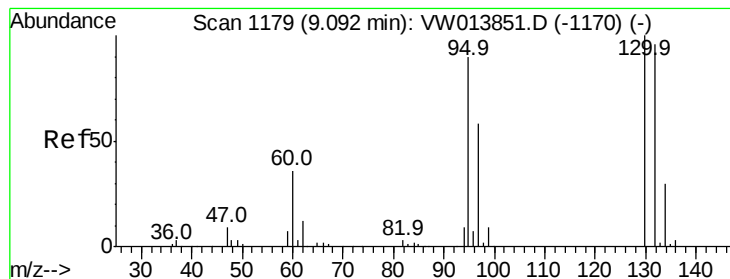
Acq: 31 Oct 2019 11:55

Tgt Ion: 78 Resp: 1090795



Abundance Ion 78.00 (77.70 to 78.70): VW





#35

Trichloroethene

Concen: 48.328 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. 0.00 min

Lab File: VW013852.D

Acq: 31 Oct 2019 11:55

Instrument :

MSVOA_W

ClientSampled :

VSTD05001

Tgt Ion: 95 Resp: 281089

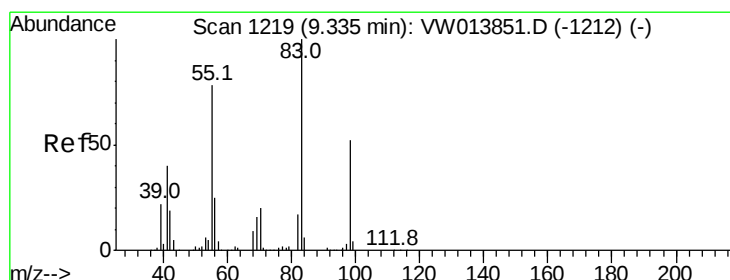
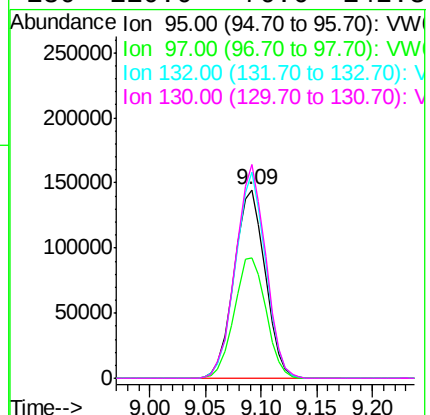
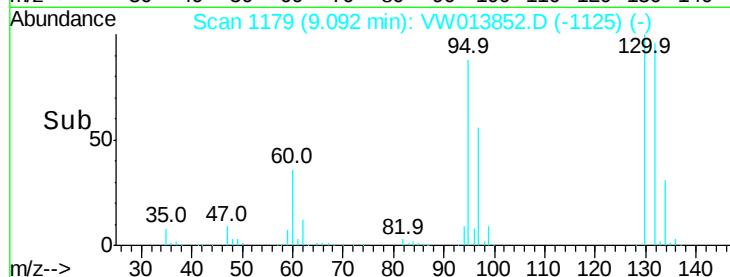
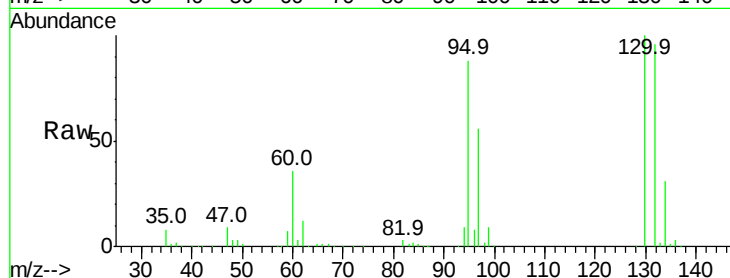
Ion Ratio Lower Upper

95 100

97 64.9 45.0 83.6

132 105.3 72.4 134.4

130 110.0 76.6 142.3



#36

Methylcyclohexane

Concen: 49.006 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. 0.00 min

Lab File: VW013852.D

Acq: 31 Oct 2019 11:55

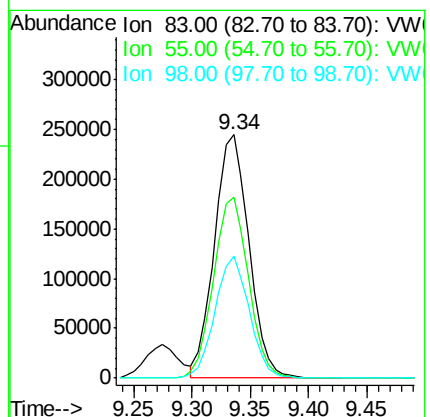
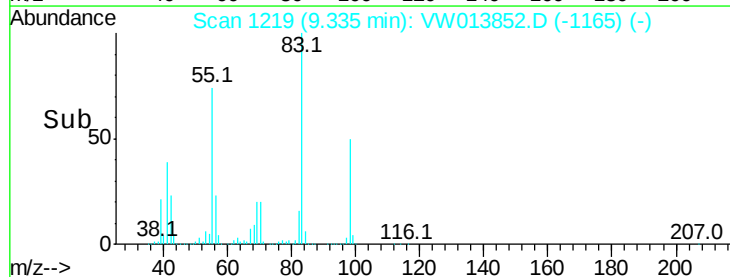
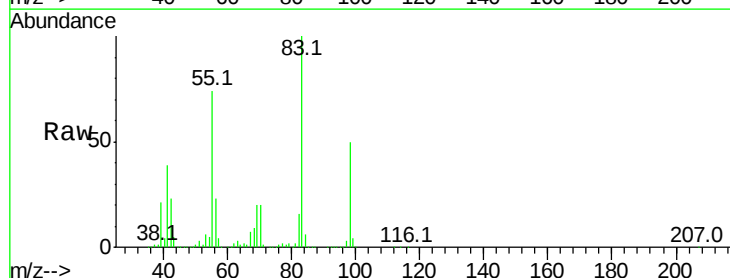
Tgt Ion: 83 Resp: 502389

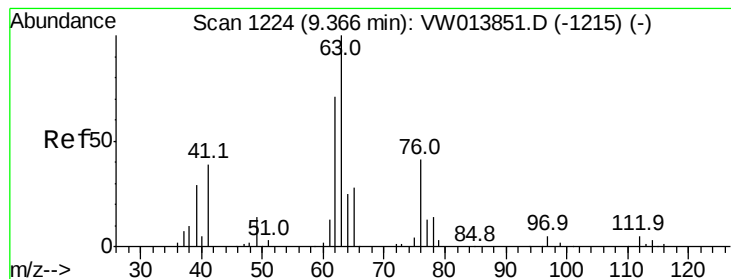
Ion Ratio Lower Upper

83 100

55 75.0 60.3 90.5

98 49.5 39.4 59.2





#40

1,2-Dichloropropane

Concen: 48.581 ug/L

RT: 9.37 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VW013852.D

Acq: 31 Oct 2019 11:55

Instrument :

MSVOA_W

ClientSampled :

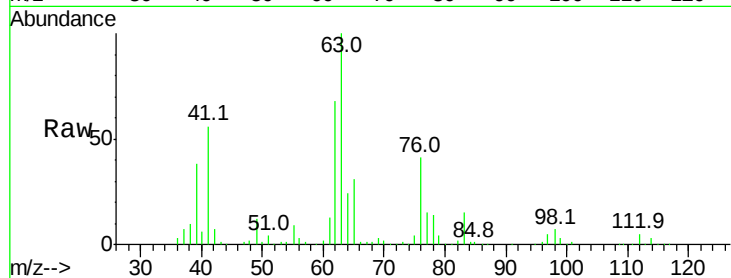
VSTD05001

Tgt Ion: 63 Resp: 269276

Ion Ratio Lower Upper

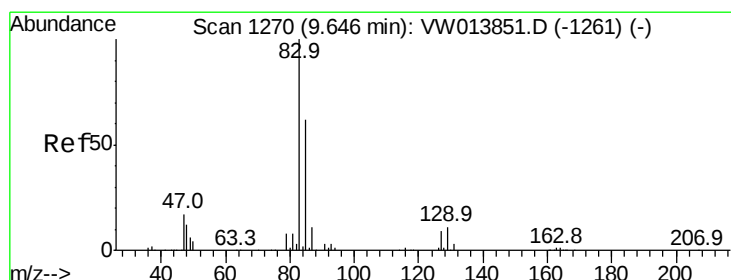
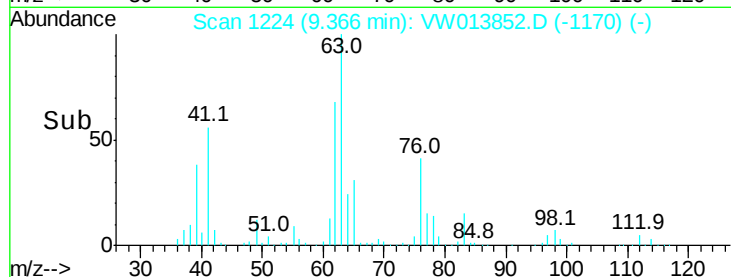
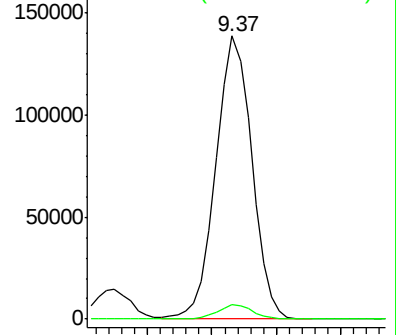
63 100

112 4.9 4.1 6.1



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 112.00 (111.70 to 112.70): V



#41

Bromodichloromethane

Concen: 50.224 ug/L

RT: 9.65 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VW013852.D

Acq: 31 Oct 2019 11:55

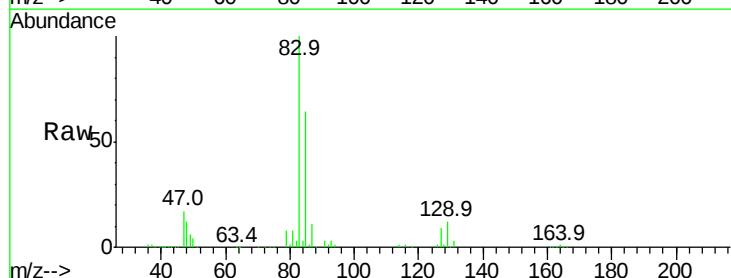
Tgt Ion: 83 Resp: 341100

Ion Ratio Lower Upper

83 100

85 64.1 43.5 80.7

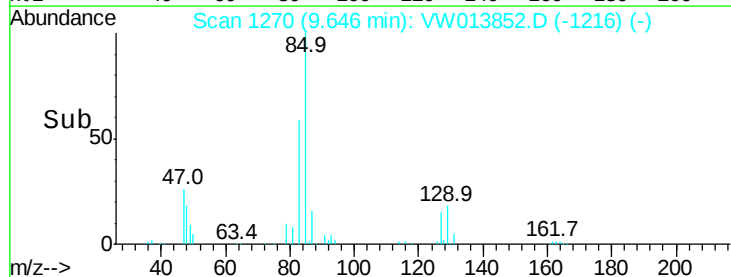
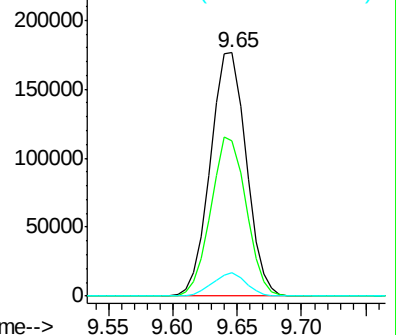
127 9.4 6.9 10.3

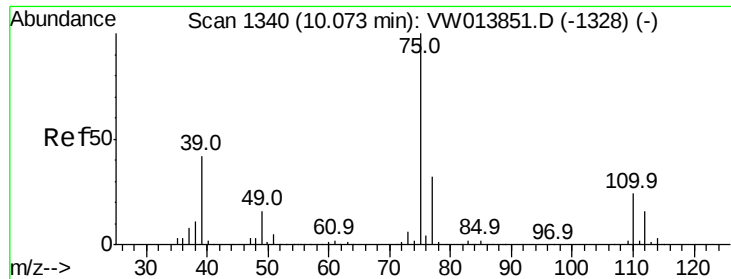


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 127.00 (126.70 to 127.70): V





#42

cis-1,3-Dichloropropene

Concen: 50.526 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW013852.D

Acq: 31 Oct 2019 11:55

Instrument :

MSVOA_W

ClientSampled :

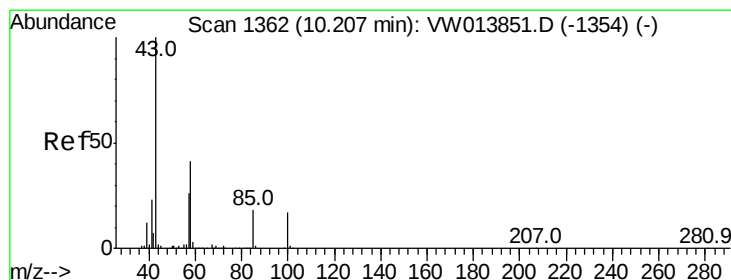
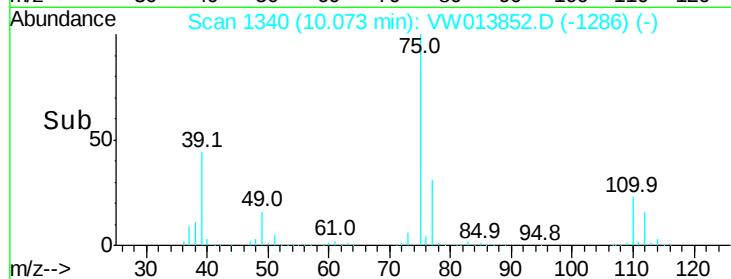
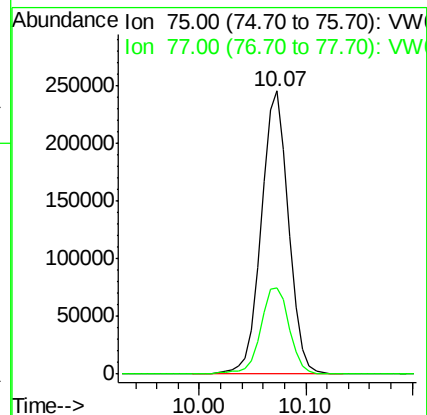
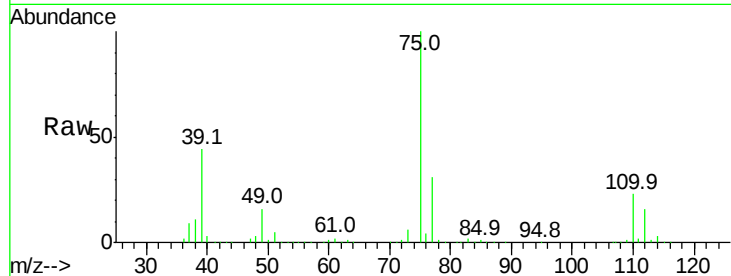
VSTD05001

Tgt Ion: 75 Resp: 442162

Ion Ratio Lower Upper

75 100

77 30.6 22.1 41.1



#43

4-Methyl-2-pentanone

Concen: 104.043 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW013852.D

Acq: 31 Oct 2019 11:55

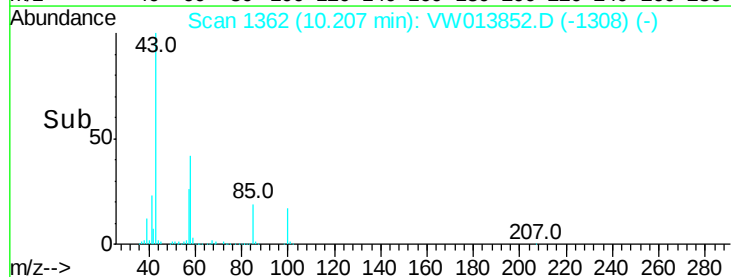
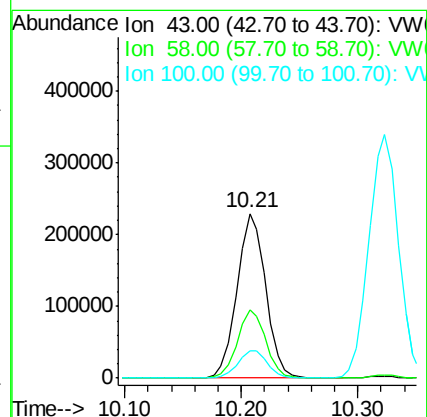
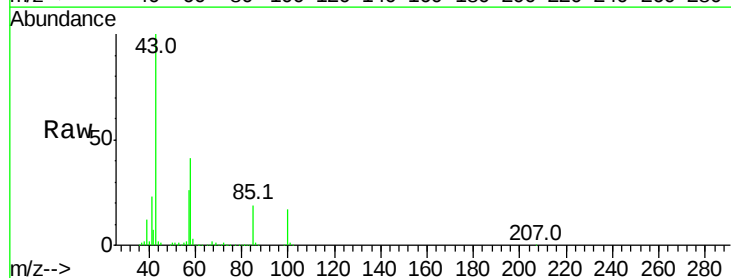
Tgt Ion: 43 Resp: 393461

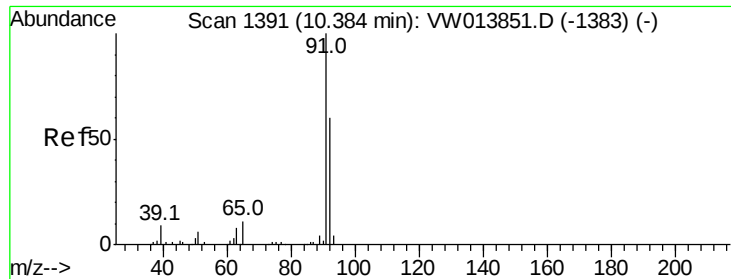
Ion Ratio Lower Upper

43 100

58 40.9 32.1 48.1

100 17.3 13.4 20.0





#44

Toluene

Concen: 48.888 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW013852.D

Acq: 31 Oct 2019 11:55

Instrument :

MSVOA_W

ClientSampleId :

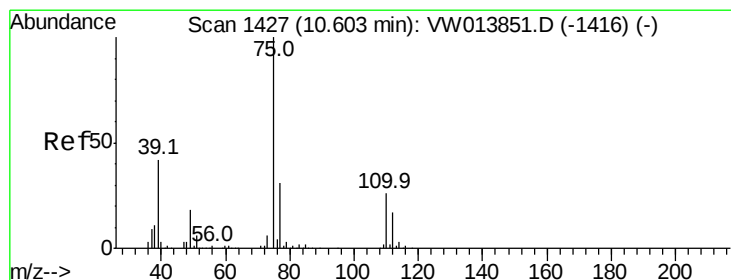
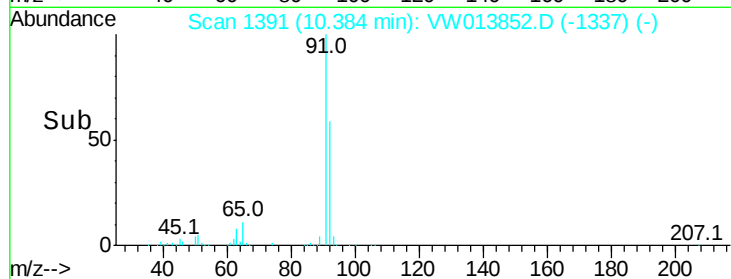
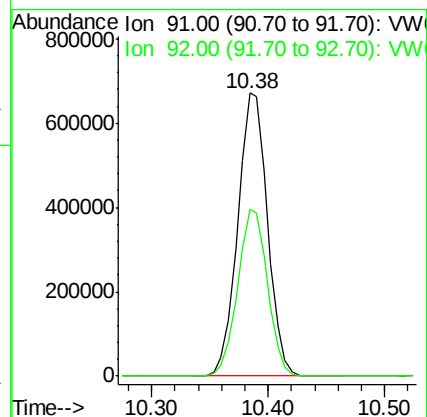
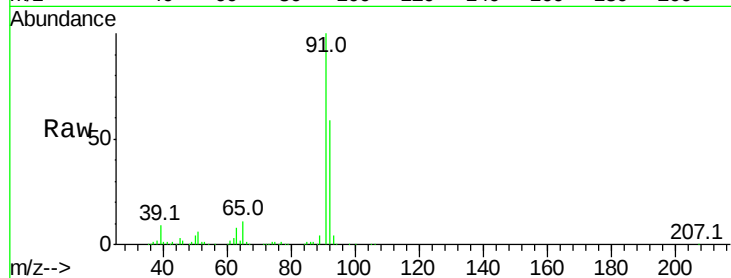
VSTD05001

Tgt Ion: 91 Resp: 1190698

Ion Ratio Lower Upper

91 100

92 59.0 42.0 78.0



#45

trans-1,3-Dichloropropene

Concen: 51.107 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW013852.D

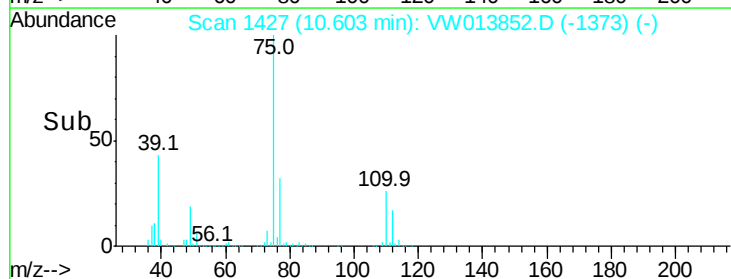
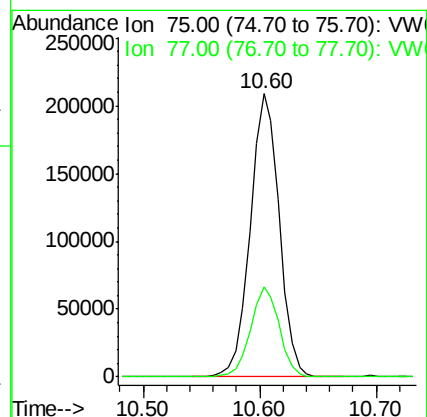
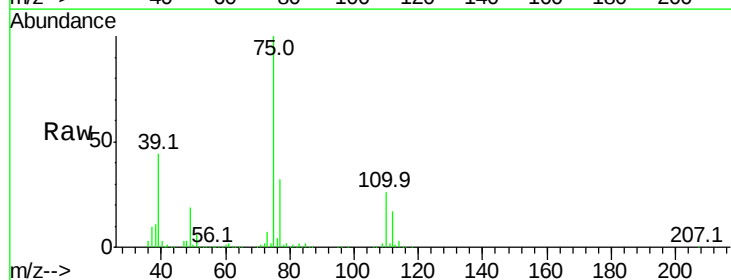
Acq: 31 Oct 2019 11:55

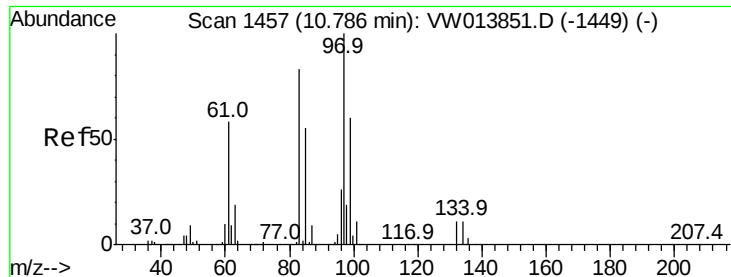
Tgt Ion: 75 Resp: 361017

Ion Ratio Lower Upper

75 100

77 31.9 21.9 40.7

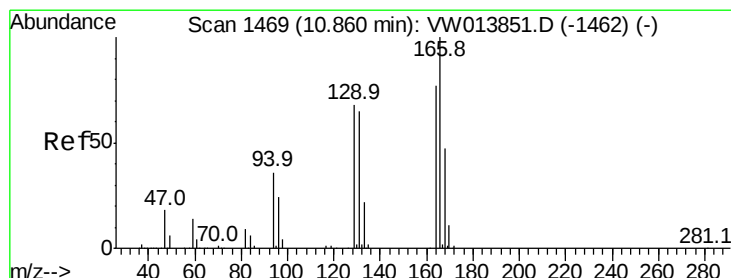
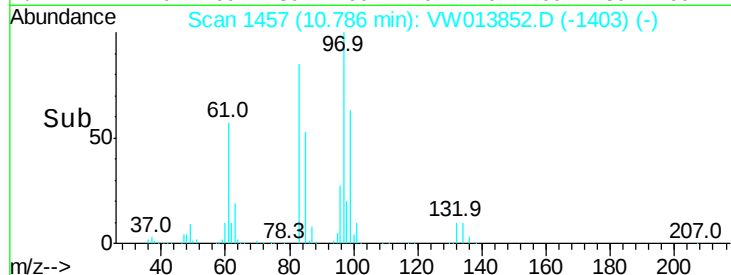
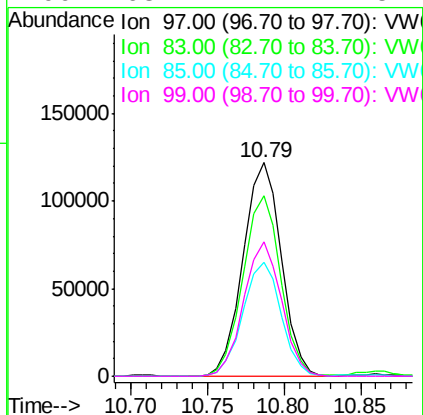
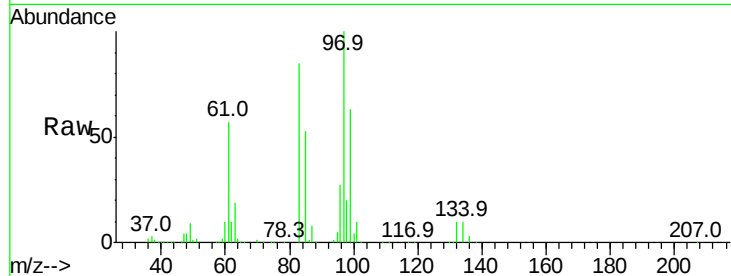




#46
 1,1,2-Trichloroethane
 Concen: 49.626 ug/L
 RT: 10.79 min Scan# 1457
 Delta R.T. 0.00 min
 Lab File: VW013852.D
 Acq: 31 Oct 2019 11:55

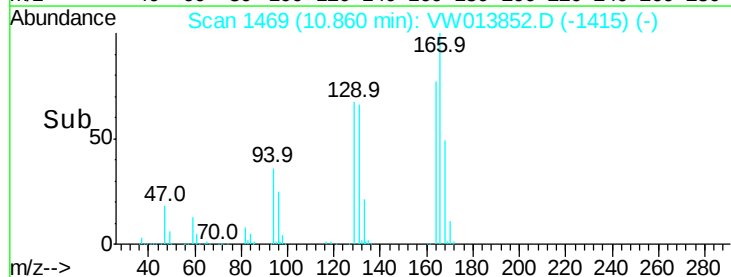
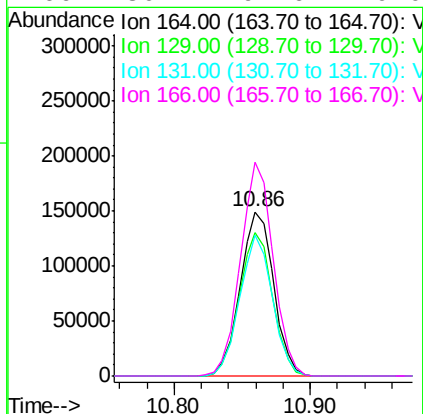
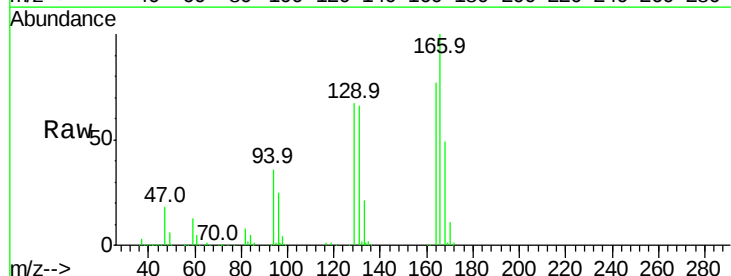
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD05001

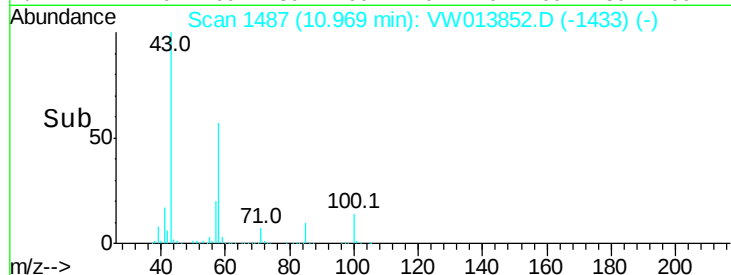
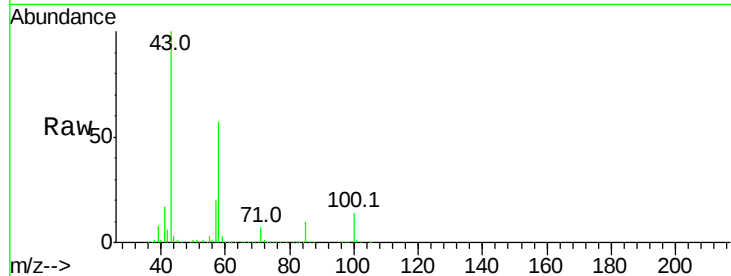
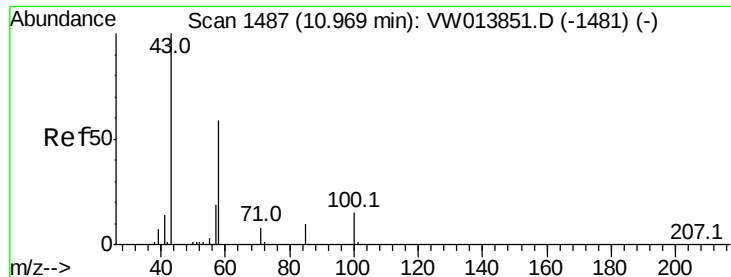
Tgt Ion:	97	Resp:	212142
Ion	Ratio	Lower	Upper
97	100		
83	84.6	57.8	107.4
85	53.4	38.3	71.1
99	63.1	42.2	78.4



#47
 Tetrachloroethene
 Concen: 48.130 ug/L
 RT: 10.86 min Scan# 1469
 Delta R.T. 0.00 min
 Lab File: VW013852.D
 Acq: 31 Oct 2019 11:55

Tgt Ion:	164	Resp:	256249
Ion	Ratio	Lower	Upper
164	100		
129	87.4	62.5	116.1
131	86.1	59.8	111.0
166	130.2	91.6	170.0





#49

2-Hexanone

Concen: 106.340 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VW013852.D

Acq: 31 Oct 2019 11:55

Instrument :

MSVOA_W

ClientSampleId :

VSTD05001

Tgt Ion: 43 Resp: 285298

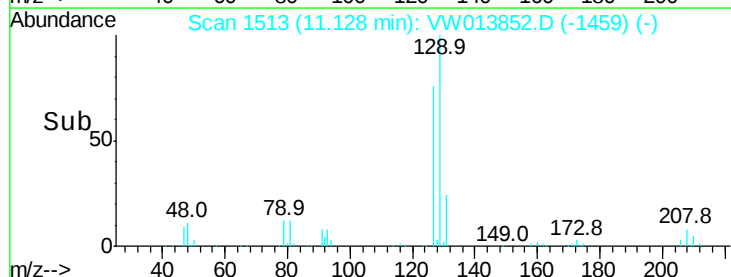
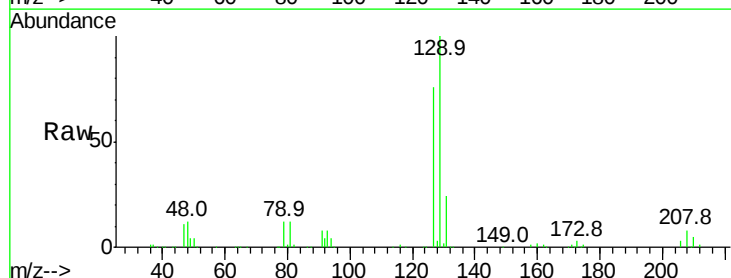
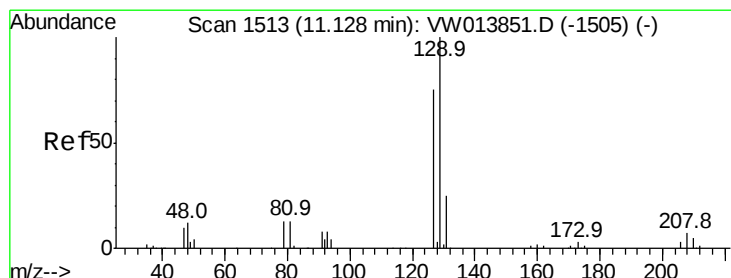
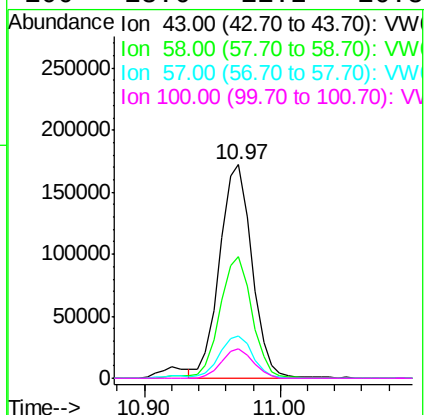
Ion Ratio Lower Upper

43 100

58 57.3 47.0 70.4

57 20.5 16.0 24.0

100 13.6 11.2 16.8



#50

Dibromochloromethane

Concen: 51.322 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VW013852.D

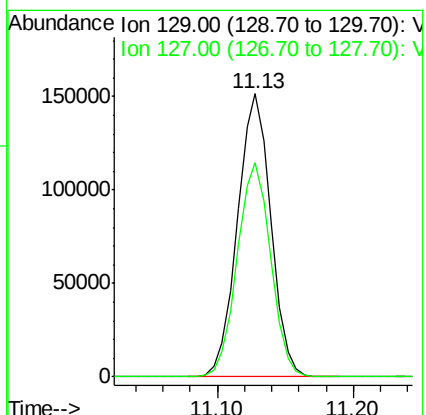
Acq: 31 Oct 2019 11:55

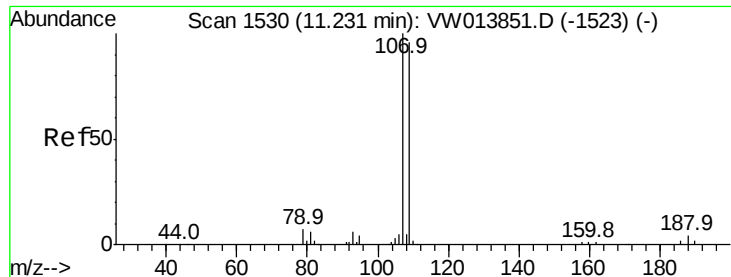
Tgt Ion: 129 Resp: 258924

Ion Ratio Lower Upper

129 100

127 75.7 52.6 97.8

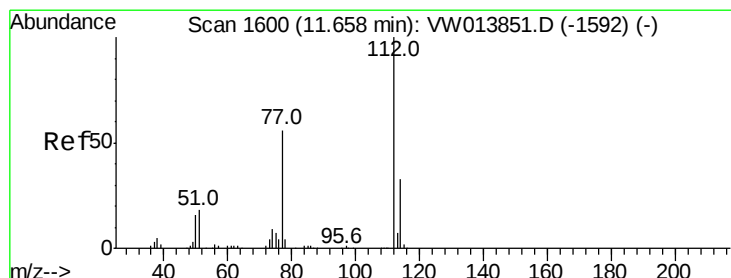
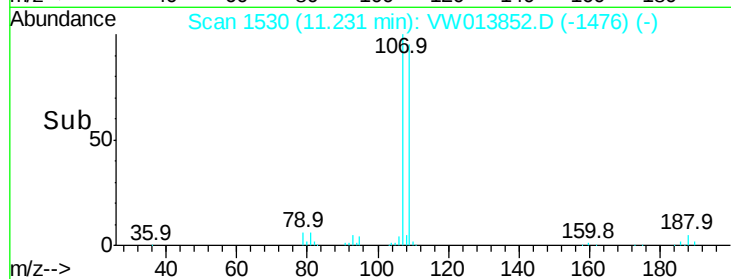
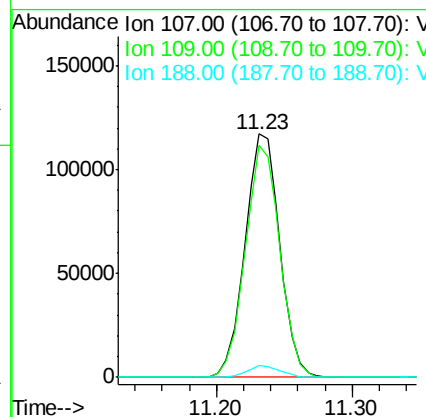
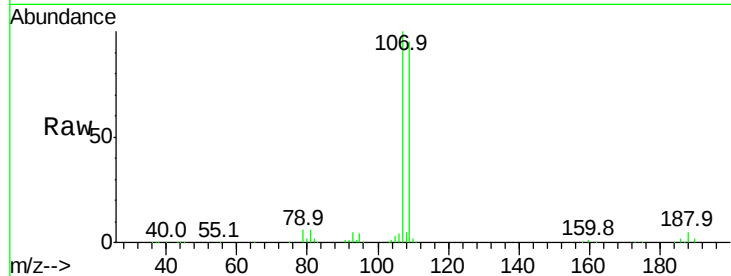




#51
1,2-Dibromoethane
Concen: 50.386 ug/L
RT: 11.23 min Scan# 1530
Delta R.T. 0.00 min
Lab File: VW013852.D
Acq: 31 Oct 2019 11:55

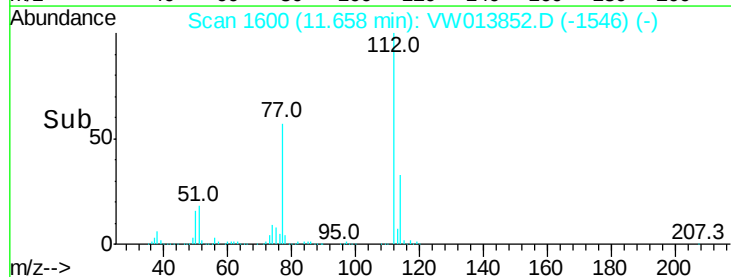
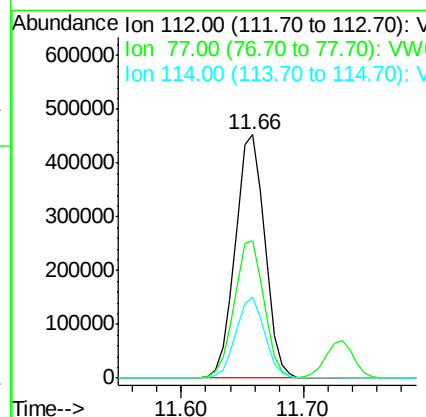
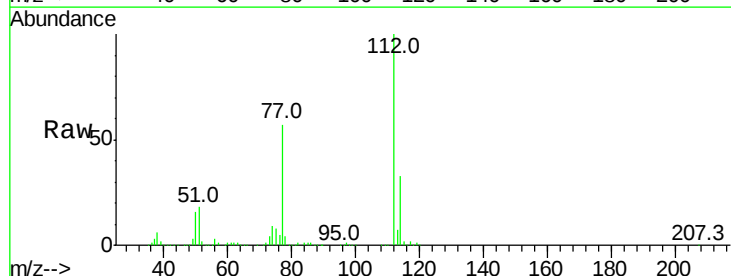
Instrument :
MSVOA_W
ClientSampleId :
VSTD05001

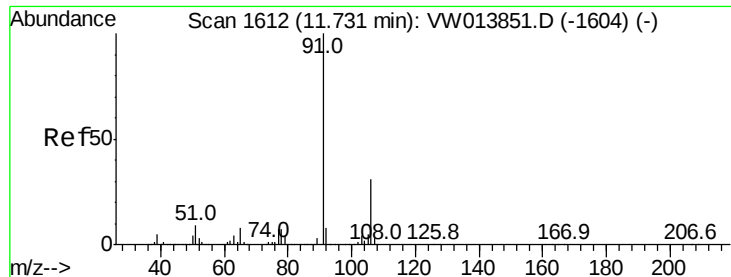
Tgt Ion:107 Resp: 209457
Ion Ratio Lower Upper
107 100
109 95.5 67.3 124.9
188 4.7 3.5 5.3



#52
Chlorobenzene
Concen: 48.310 ug/L
RT: 11.66 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VW013852.D
Acq: 31 Oct 2019 11:55

Tgt Ion:112 Resp: 752839
Ion Ratio Lower Upper
112 100
77 56.6 44.7 67.1
114 33.1 23.1 42.9

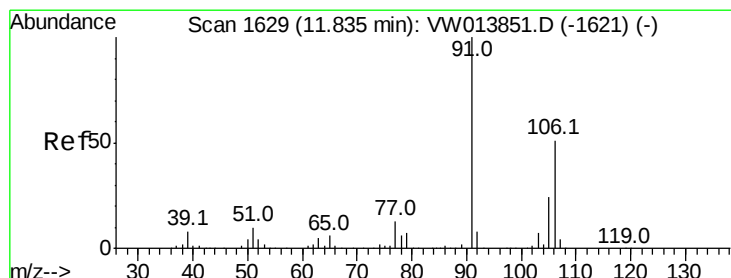
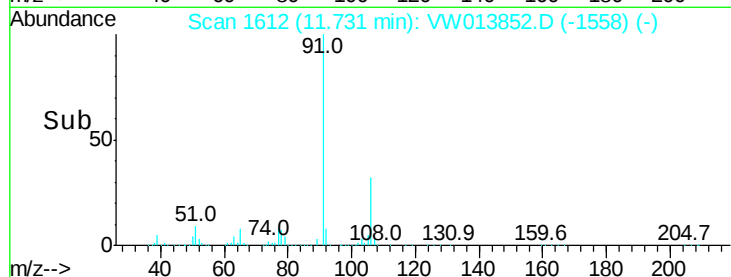
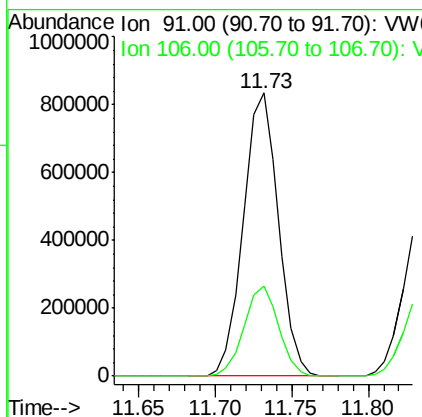
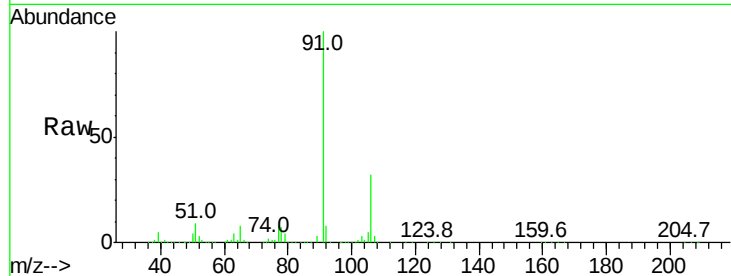




#53
Ethylbenzene
Concen: 49.378 ug/L
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW013852.D
Acq: 31 Oct 2019 11:55

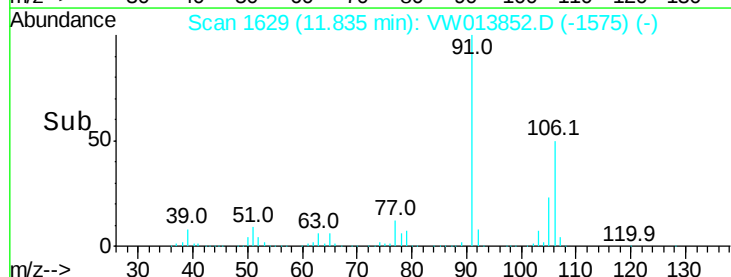
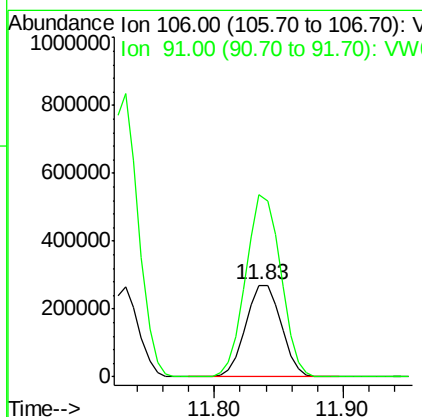
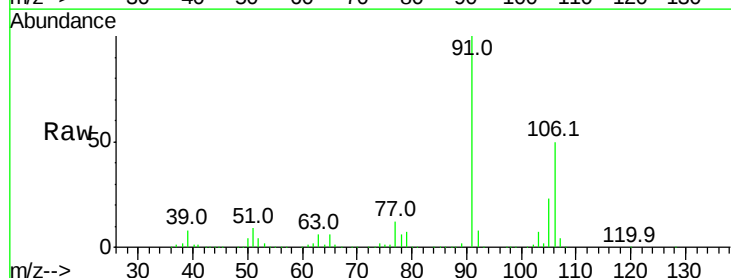
Instrument :
MSVOA_W
ClientSampleId :
VSTD05001

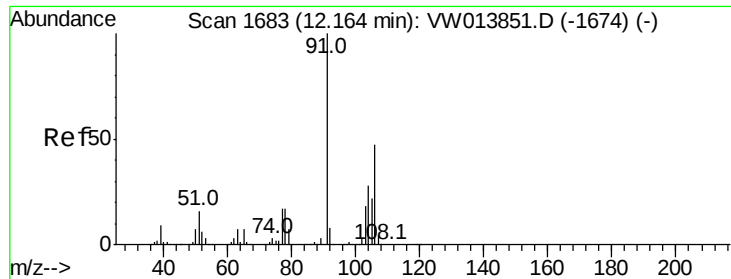
Tgt Ion: 91 Resp: 1328770
Ion Ratio Lower Upper
91 100
106 31.8 21.8 40.4



#54
m,p-Xylene
Concen: 49.503 ug/L
RT: 11.83 min Scan# 1629
Delta R.T. 0.00 min
Lab File: VW013852.D
Acq: 31 Oct 2019 11:55

Tgt Ion: 106 Resp: 514791
Ion Ratio Lower Upper
106 100
91 199.4 136.6 253.8

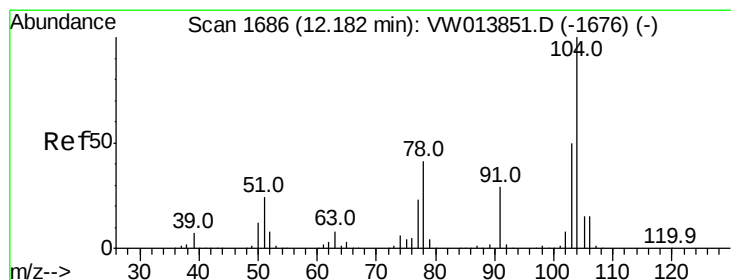
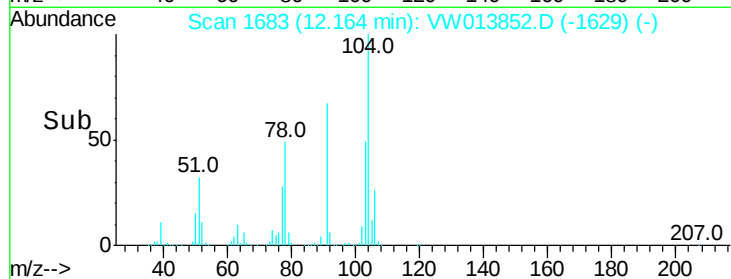
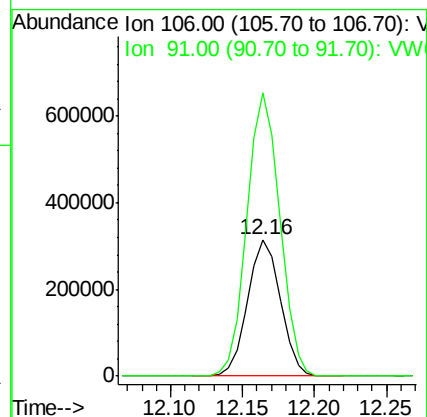
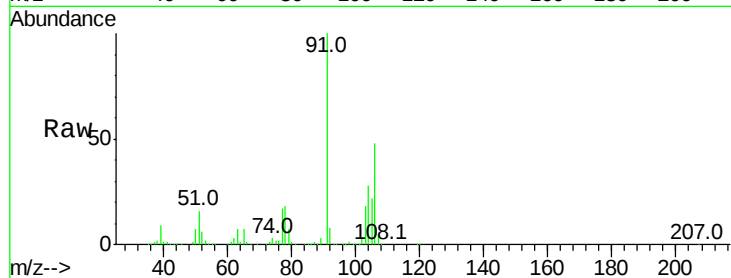




#55
o-xylene
Concen: 50.184 ug/L
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW013852.D
Acq: 31 Oct 2019 11:55

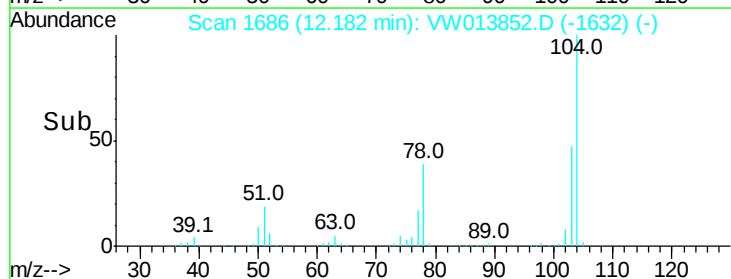
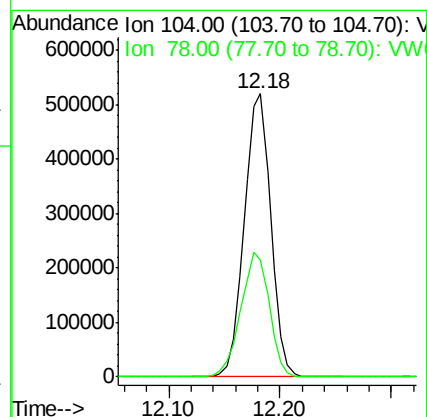
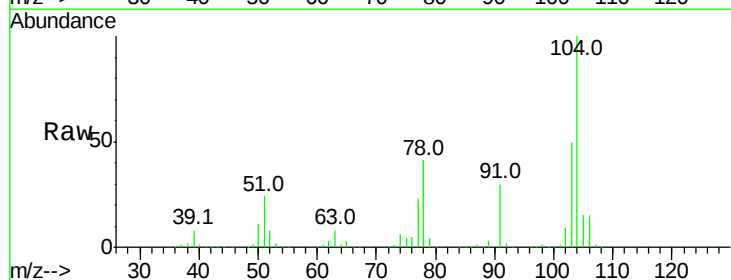
Instrument :
MSVOA_W
ClientSampleId :
VSTD05001

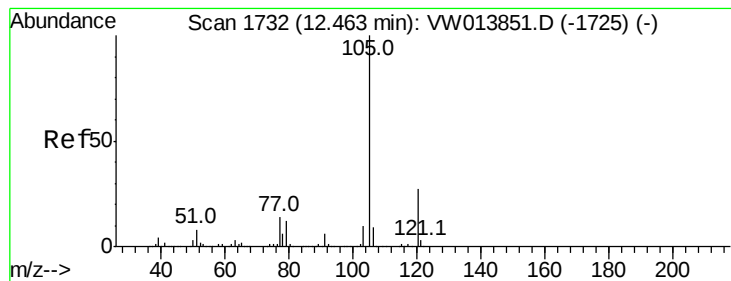
Tgt Ion:106 Resp: 495240
Ion Ratio Lower Upper
106 100
91 207.6 148.0 274.8



#56
Styrene
Concen: 50.736 ug/L
RT: 12.18 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VW013852.D
Acq: 31 Oct 2019 11:55

Tgt Ion:104 Resp: 856506
Ion Ratio Lower Upper
104 100
78 41.4 28.9 53.7





#57

Isopropylbenzene

Concen: 49.645 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW013852.D

Acq: 31 Oct 2019 11:55

Instrument :

MSVOA_W

ClientSampled :

VSTD05001

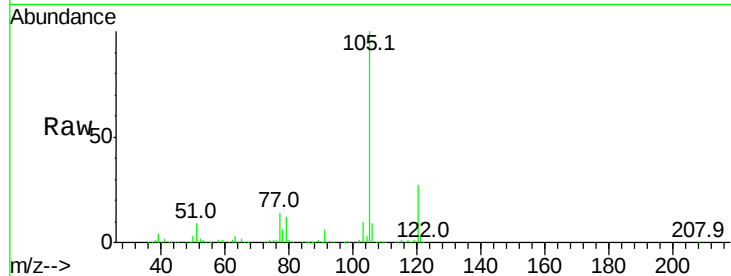
Tgt Ion:105 Resp: 1314110

Ion Ratio Lower Upper

105 100

120 26.9 21.7 32.5

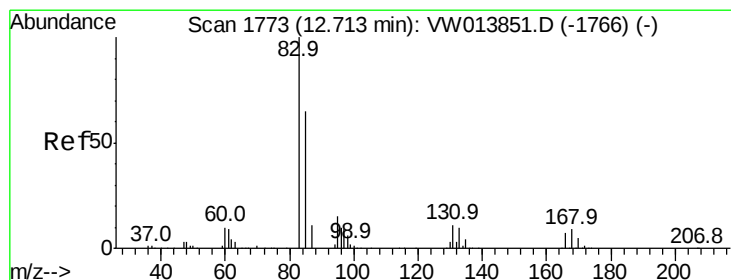
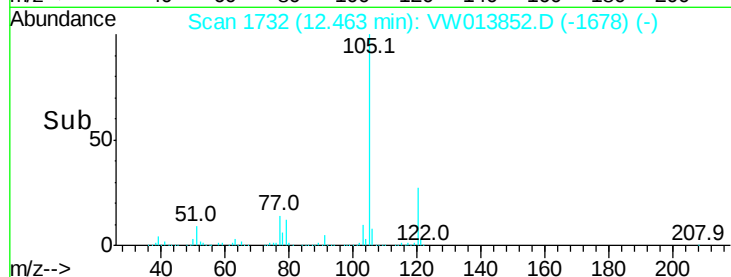
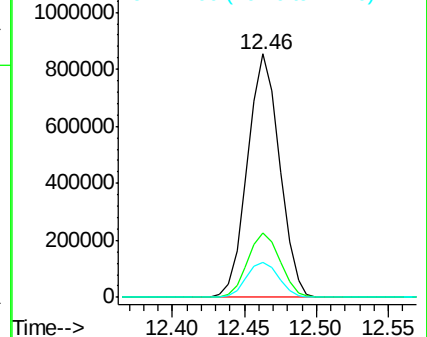
77 14.6 11.7 17.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 52.256 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW013852.D

Acq: 31 Oct 2019 11:55

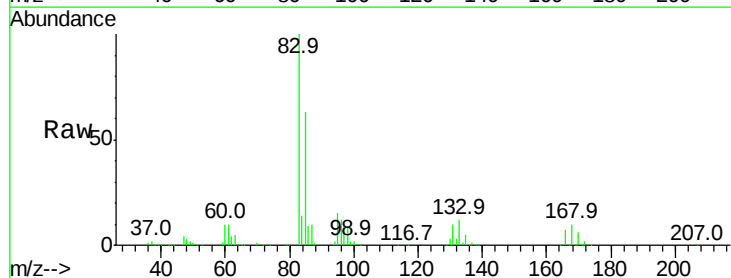
Tgt Ion: 83 Resp: 261825

Ion Ratio Lower Upper

83 100

85 63.1 46.1 85.7

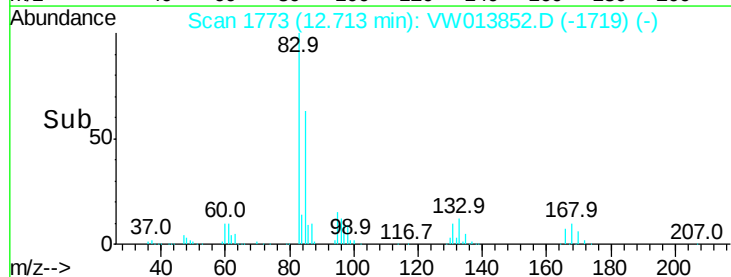
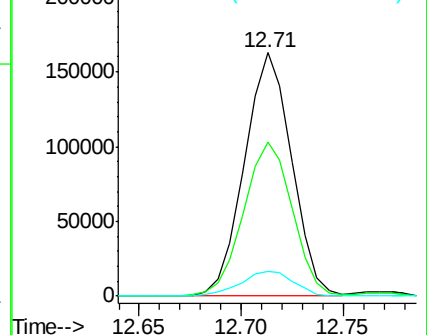
131 10.1 9.0 13.6

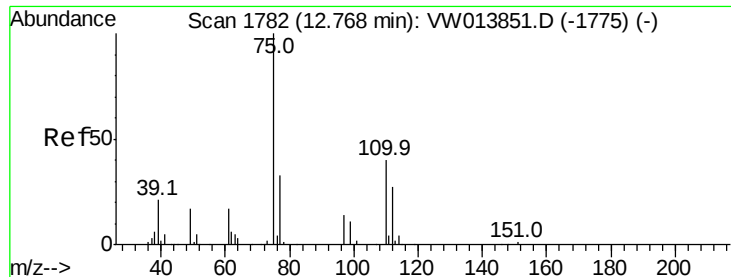


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V

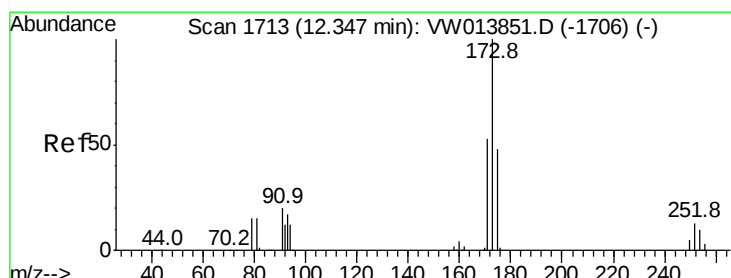
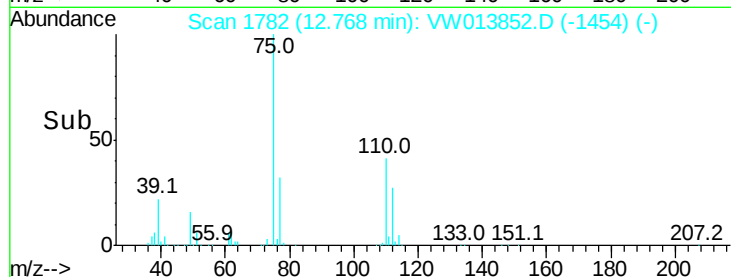
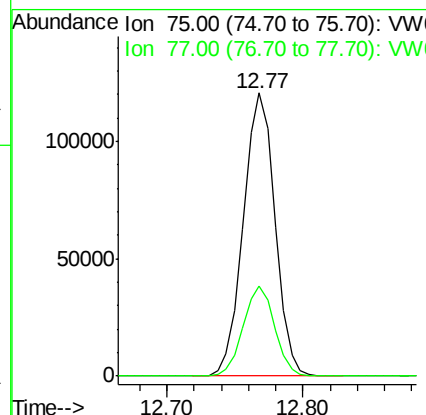
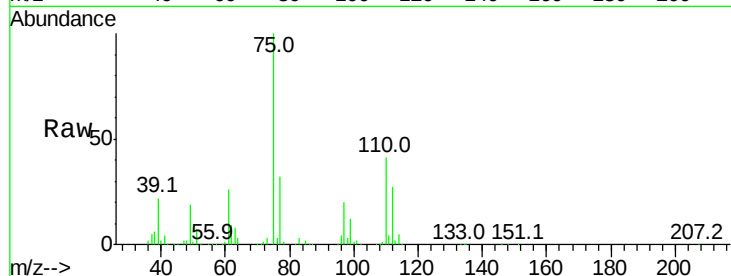




#59
 1,2,3-Trichloropropane
 Concen: 52.445 ug/L
 RT: 12.77 min Scan# 1782
 Delta R.T. 0.00 min
 Lab File: VW013852.D
 Acq: 31 Oct 2019 11:55

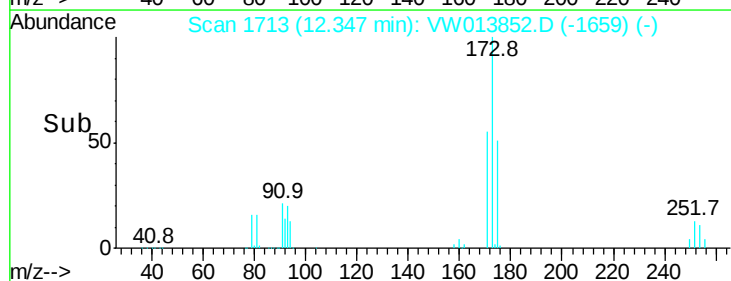
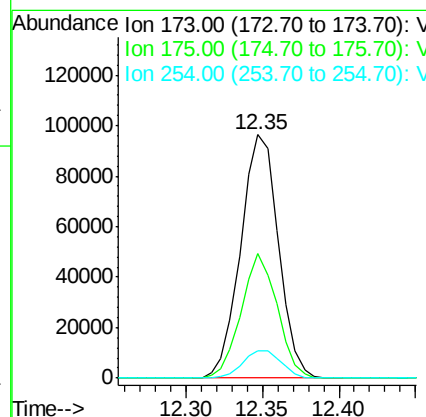
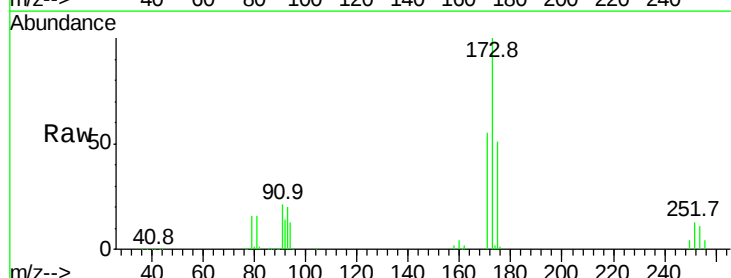
Instrument :
 MSVOA_W
 ClientSampled :
 VSTD05001

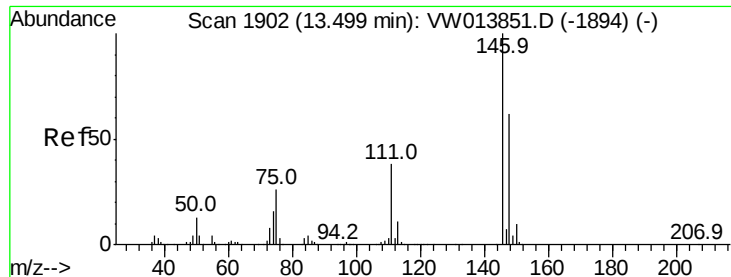
Tgt Ion: 75 Resp: 195954
 Ion Ratio Lower Upper
 75 100
 77 31.6 25.8 38.8



#62
 Bromoform
 Concen: 49.038 ug/L
 RT: 12.35 min Scan# 1713
 Delta R.T. 0.00 min
 Lab File: VW013852.D
 Acq: 31 Oct 2019 11:55

Tgt Ion: 173 Resp: 165584
 Ion Ratio Lower Upper
 173 100
 175 49.0 39.1 58.7
 254 11.5 9.4 14.2

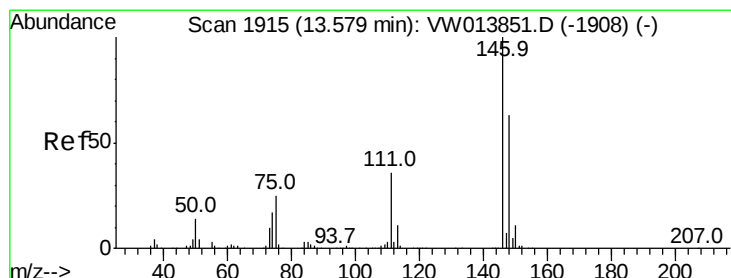
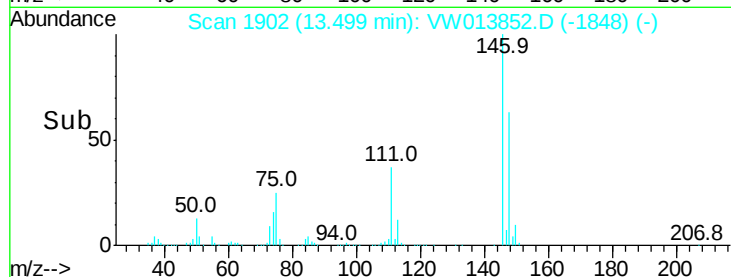
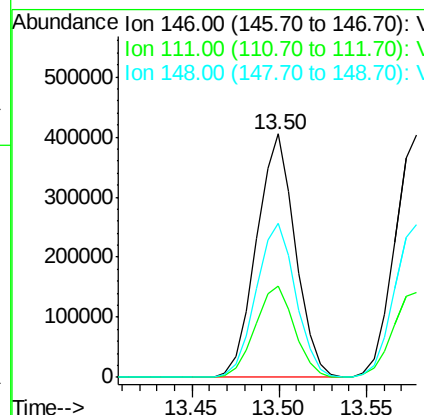
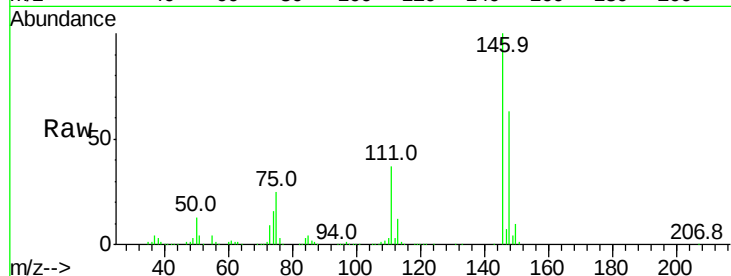




#63
 1,3-Dichlorobenzene
 Concen: 47.067 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW013852.D
 Acq: 31 Oct 2019 11:55

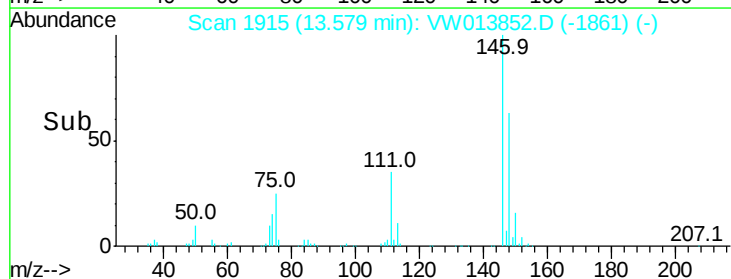
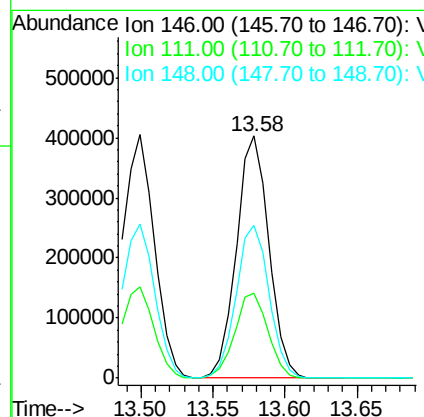
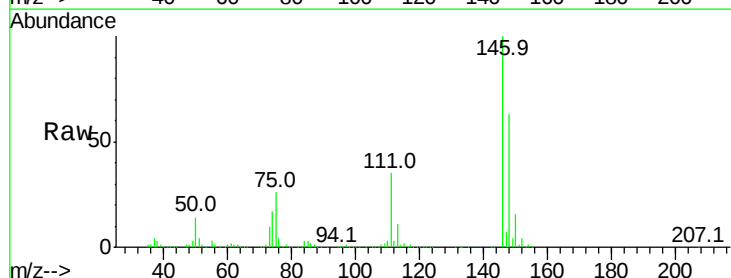
Instrument :
 MSVOA_W
 ClientSampled :
 VSTD05001

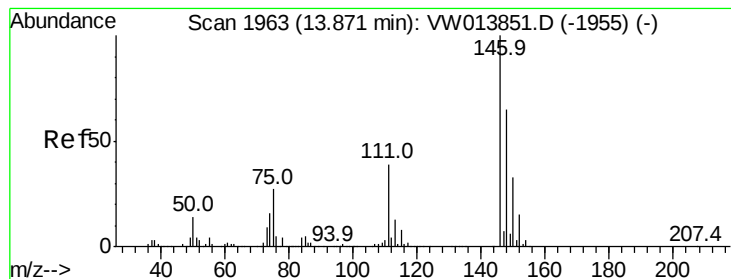
Tgt Ion:146 Resp: 629251
 Ion Ratio Lower Upper
 146 100
 111 37.3 26.5 49.1
 148 63.4 43.7 81.1



#64
 1,4-Dichlorobenzene
 Concen: 47.200 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW013852.D
 Acq: 31 Oct 2019 11:55

Tgt Ion:146 Resp: 634108
 Ion Ratio Lower Upper
 146 100
 111 34.8 25.0 46.4
 148 63.2 44.4 82.5





#65

1,2-Dichlorobenzene

Concen: 47.901 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. 0.00 min

Lab File: VW013852.D

Acq: 31 Oct 2019 11:55

Instrument :

MSVOA_W

ClientSampleId :

VSTD05001

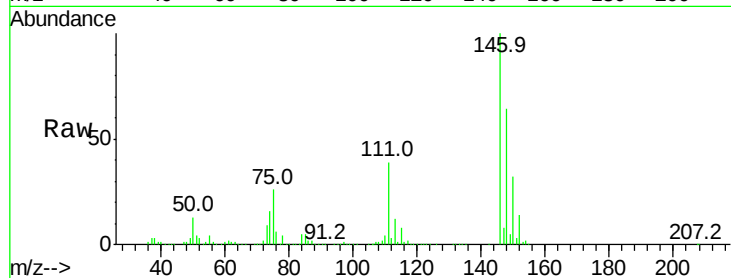
Tgt Ion:146 Resp: 580235

Ion Ratio Lower Upper

146 100

111 38.7 31.0 46.4

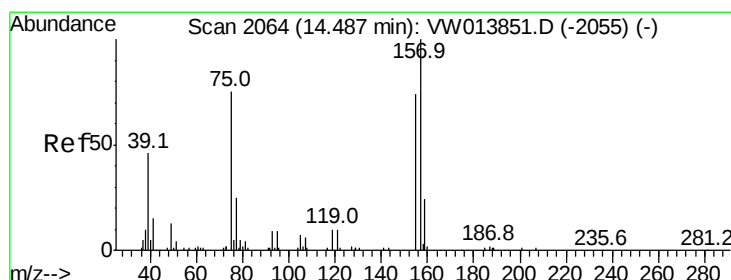
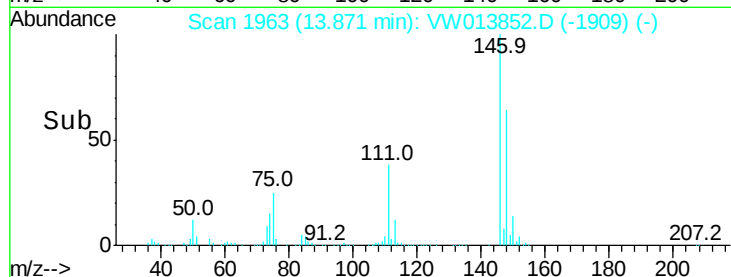
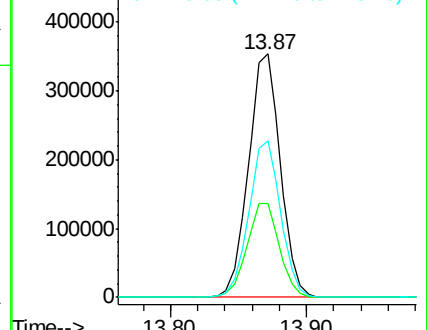
148 64.4 51.8 77.6



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 53.560 ug/L

RT: 14.49 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VW013852.D

Acq: 31 Oct 2019 11:55

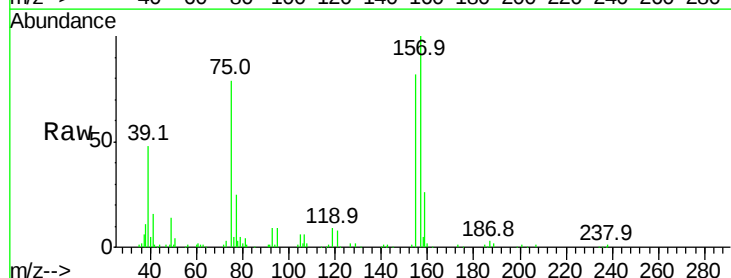
Tgt Ion: 75 Resp: 44594

Ion Ratio Lower Upper

75 100

157 126.9 106.2 159.2

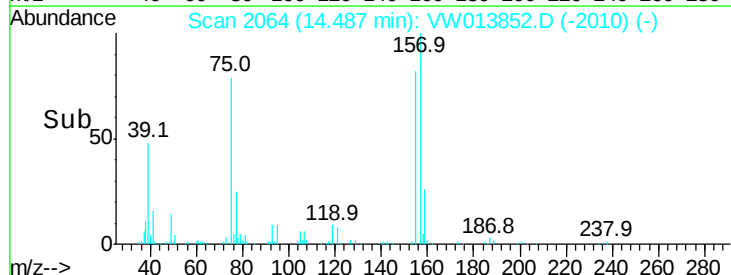
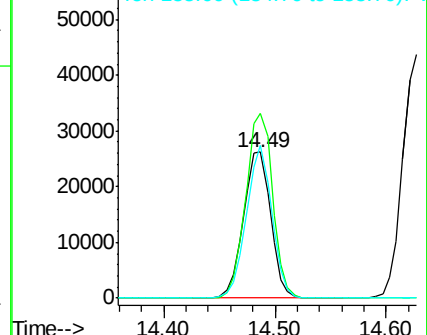
155 104.2 78.8 118.2

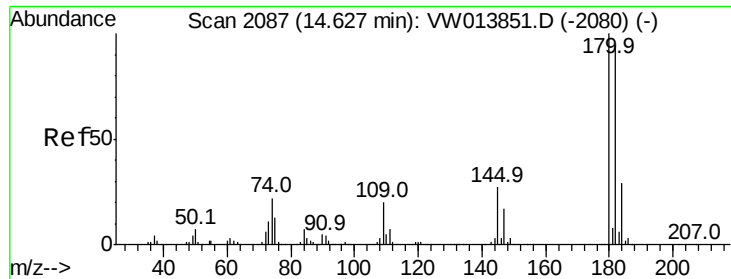


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

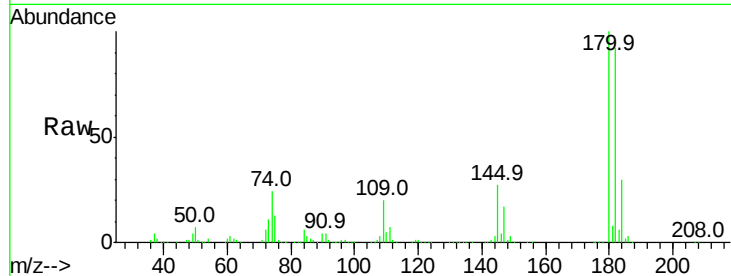




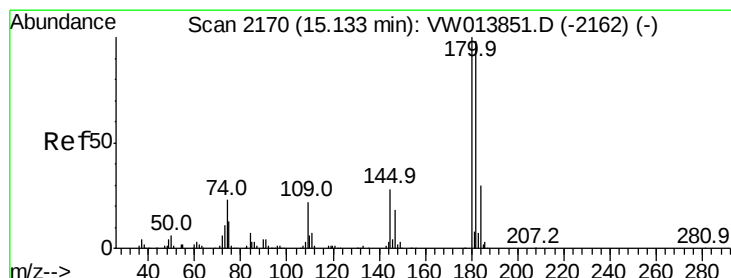
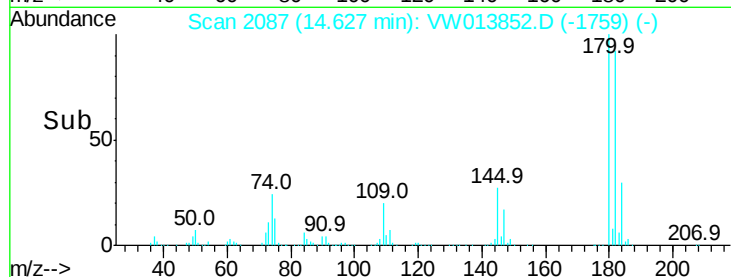
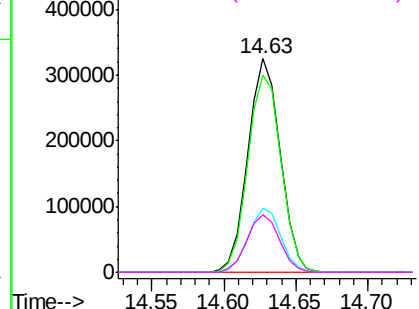
#67
 1,3,5-Trichlorobenzene
 Concen: 50.532 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. 0.00 min
 Lab File: VW013852.D
 Acq: 31 Oct 2019 11:55

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD05001

Tgt Ion:180 Resp: 502241
 Ion Ratio Lower Upper
 180 100
 182 94.9 76.2 114.4
 184 30.2 24.1 36.1
 145 27.0 21.7 32.5

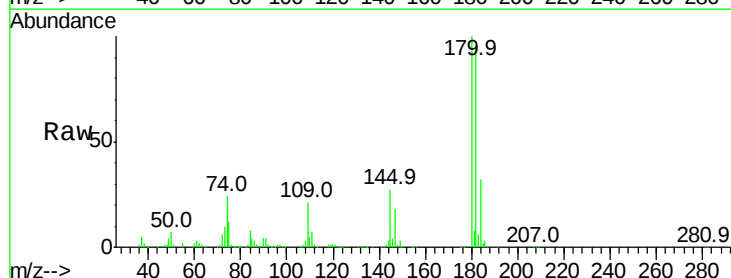


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

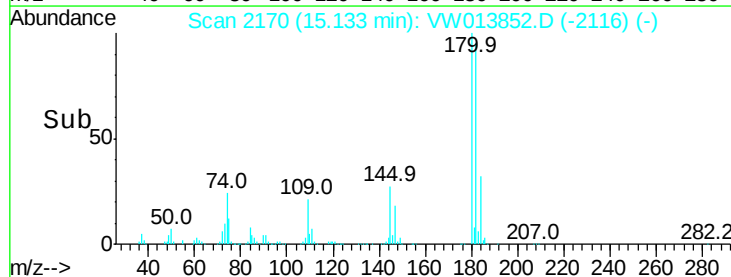
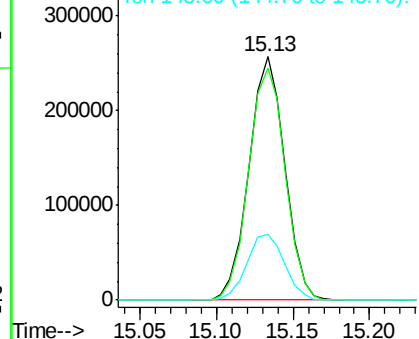


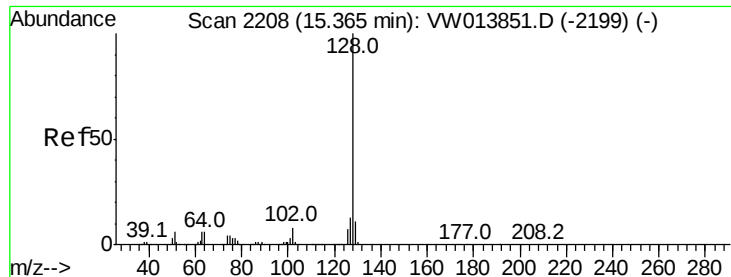
#68
 1,2,4-trichlorobenzene
 Concen: 49.489 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW013852.D
 Acq: 31 Oct 2019 11:55

Tgt Ion:180 Resp: 417579
 Ion Ratio Lower Upper
 180 100
 182 97.4 74.8 112.2
 145 28.5 22.4 33.6



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 54.692 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW013852.D

Acq: 31 Oct 2019 11:55

Instrument :

MSVOA_W

ClientSampleId :

VSTD05001

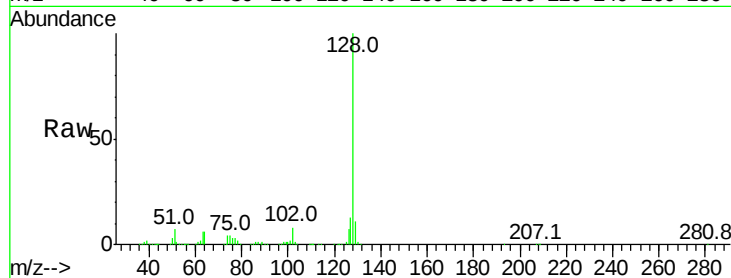
Tgt Ion:128 Resp: 836219

Ion Ratio Lower Upper

128 100

129 11.2 8.6 13.0

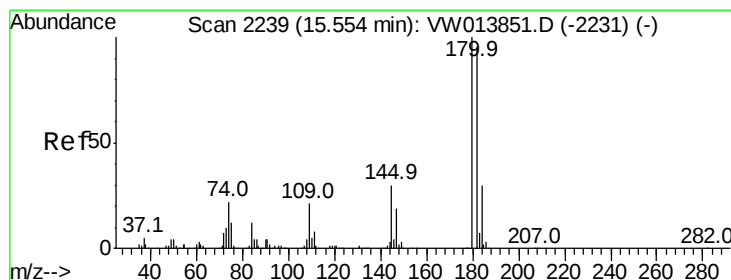
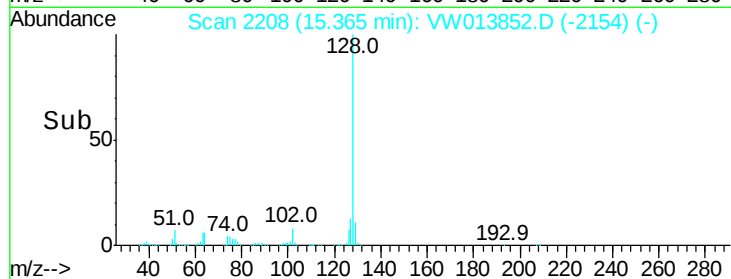
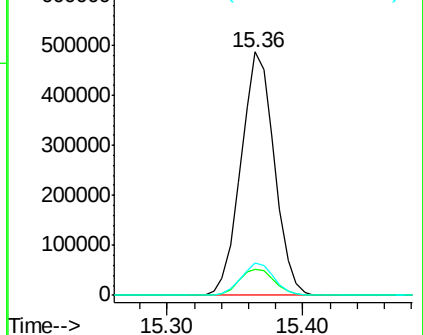
127 13.0 10.5 15.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 50.546 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. 0.00 min

Lab File: VW013852.D

Acq: 31 Oct 2019 11:55

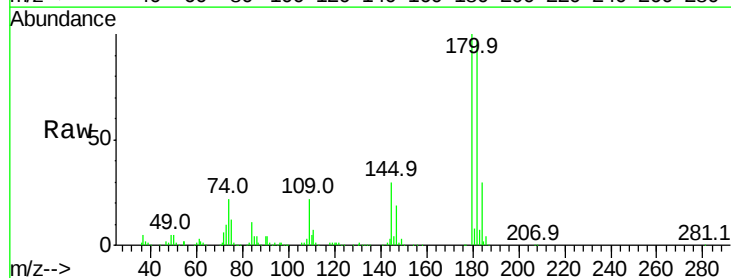
Tgt Ion:180 Resp: 381941

Ion Ratio Lower Upper

180 100

182 94.7 78.0 117.0

145 29.3 23.9 35.9



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

